

Commission Directive 2008/58/EC of 21 August 2008 amending, for the purpose of its adaptation to technical progress, for the 30th time, Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (Text with EEA relevance)

COMMISSION DIRECTIVE 2008/58/EC

of 21 August 2008

amending, for the purpose of its adaptation to technical progress, for the 30th time, Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 67/548/EEC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances<sup>(1)</sup>, and in particular Article 28 thereof,

Whereas:

- (1) Annex I to Directive 67/548/EEC contains a list of dangerous substances, together with particulars of the classification and labelling of each substance. That list needs to be updated to include further notified new substances and further existing substances, as well as to adapt certain entries to technical progress. In addition, it is necessary, in that Annex, to delete entries for certain substances. The classification and labelling of substances containing benzene should be changed in order to reflect that benzene is classified as a mutagen and some entries should be split because the newly added or revised physico-chemical classification no longer applies to all the substances under those entries.
- (2) The classification and labelling of the substances listed in this Directive should be reviewed if new scientific knowledge becomes available. In this respect, considering recent preliminary, partial and not peer-reviewed information submitted by industry, special attention should be paid to further results of epidemiological studies on the Borates concerned by this Directive including the ongoing study conducted in China and the outcome of the IARC discussion of the classification of Nickel substances or any new relevant scientific findings or interpretations given to the data used to establish the current proposals for the Nickel compounds concerned by this Directive.
- (3) Certain notes in the foreword of Annex I should be amended or added to clarify the obligations on manufacturers, distributors and importers of certain substances, to reflect that benzene has, in addition to other effects, been classified as mutagenic, and to

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reflect that the classification and labelling in Annex I relating to physico-chemical properties need not be applied when testing shows that the specific form of a substance marketed has different physico-chemical properties. Note 6 in the foreword of Annex I should be deleted as the provisions of this note no longer apply from the date on which Commission Directive 2001/60/EC<sup>(2)</sup> enters into force. Consequently, the reference to Note 6 should be deleted from certain entries in the Annex. A new Note 7 should be added to the foreword of Annex I to reflect that alloys containing nickel are to be classified for sensitisation on the basis of their release rate rather than on the concentration of nickel.

- (4) The measures provided for in this Directive are in accordance with the opinion of the Committee on the Adaptation to Technical Progress of the Directives for the Elimination of Technical Barriers to Trade with Dangerous Substances and Preparations,

HAS ADOPTED THIS DIRECTIVE:

*Article 1*

Annex I of Directive 67/548/EEC is amended as follows:

1. the foreword is amended as follows:
  - (a) Note H is replaced by the text set out in Annex 1A;
  - (b) Note J is replaced by the text set out in Annex 1B;
  - (c) Note P is replaced by the text set out in Annex 1C;
  - (d) The text set out in Annex 1D is added as Note T;
  - (e) Note 6 is deleted;
  - (f) The text set out in Annex 1E is added as Note 7;
2. the entries corresponding to the entries set out in Annex 1F are replaced by the entries set out in that Annex;
3. The entries set out in Annex 1G to this Directive are inserted in accordance with the order of the entries set out in Annex I to Directive 67/548/EEC;
4. The entries set out in Annex 1H to this Directive are deleted.

*Article 2*

1 Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 1 June 2009 at the latest. They shall forthwith communicate to the Commission the text of those provisions and a correlation table between those provisions and this Directive.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

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*Article 3*

This Directive shall enter into force on the 20th day following that of its publication in the *Official Journal of the European Union*.

*Article 4*

This Directive is addressed to the Member States.

Done at Brussels, 21 August 2008.

*For the Commission*

Stavros DIMAS

*Member of the Commission*

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## ANNEX 1A

### Note H:

The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, distributors and importers of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.

## ANNEX 1B

### Note J:

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). This note applies only to certain complex coal- and oil-derived substances in Annex I.

## ANNEX 1C

### Note P:

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

When the substance is classified as a carcinogen or mutagen, Note E shall also apply.

When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply.

This note applies only to certain complex oil-derived substances in Annex I.

## ANNEX 1D

### Note T:

This substance may be marketed in a form which does not have the physico-chemical properties as indicated by the classification in the Annex I entry. If the result(s) of the relevant Annex V test method(s) show(s) that the specific form of the substance marketed does not exhibit this (these) property (properties), the substance shall be classified in accordance with the results(s) of this (these) test(s). Relevant information, including reference to the relevant Annex V test(s) method(s), should be included in the safety data sheet.

## ANNEX 1E

### Note 7:

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Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 µg Ni/cm<sup>2</sup>/week, as measured by the European Standard reference test method EN 1811, is exceeded.

## ANNEX 1F

Index No	Chemical name	Notes related to substances	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes related to preparations
006-011	Carbaryl (ISO); 1-naphthyl methylcarbamate		200-555-0	63-25-2	Carc. Cat 3; R40 Xn; R20/22 N; R50	Xn; N R: 20/22-40-50 S: (2-)36/37-40/41	C ≥ 25 %: Xn, N; R20/22-40-50 C < 25 %: Xn, N; R40-50 0,25 % ≤ C < 1 %: N; R50	
006-045	Orthomyl (ISO); 1-(methylthio)ethylideneamino N-methylcarbamate		240-815-0	16752-77	T+; R28 N; R50-53	T+; N R: 28-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 7 %: T+, N; R28-50/53 1 % ≤ C < 0,25 %: T, N; R25-50/53 0,25 % ≤ C < 1 %: Xn, N; R22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R22-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
006-087	Carathiocarb (ISO);		265-974-3	65907-30	T+; R26 T; R25	T+; N	C ≥ 25 %:	

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	2,3-dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate			Xn; R48/22 Xi; R36/38 R43 N; R50-53	R: 25-26-36/38-43-48/22-50/53 S: (1/2-)28-36/37-38-45-60-61 25 %: T+, N; R22-26-36/38-43-48/22-50/53 10 %: ≤ C < 20 %: T+, N; R22-26-43-48/22-50/53 7 % ≤ C < 10 %: T+, N; R22-26-43-50/53 3 % ≤ C < 7 %: T, N; R22-23-43-50/53 1 % ≤ C < 3 %: T, N; R23-43-50/53 0,25 % ≤ C < 1 %: Xn, N; R20-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R20-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53		
007-007-008	Ethyl nitrate	210-903-3	625-58-1	E; R3	E R: 3 S: (2-)23-24/25		
009-001-000	Chlorine	231-954-8	7782-41-4	O; R8 T+; R26 C; R35	O; T+; C R: 8-26-35		

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					S: (1/2-)9-26-28-36/37/39-45	
013-002-001	Aluminium powder (stabilised)	231-072-3	7429-90-5	F; R11-15	F R: 11-15 S: (2-)7/8-43	
015-003-002	Calcium phosphide; tricalcium diphosphide	215-142-0	1305-99-3	F; R15/29 T+; R28 N; R50	F; T+; N R: 15/29-28-30 S: (1/2-)22-28-36/37-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C
015-004-001	Aluminium phosphide	244-088-0	20859-73-8	F; R15/29 T+; R28 R32 N; R50	F; T+; N R: 15/29-28-30 S: (1/2-)3/9/14-28/30-36/37-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C
015-005-003	Magnesium phosphide; trimagnesium diphosphide	235-023-7	12057-74-8	F; R15/29 T+; R28 N; R50	F; T+; N R: 15/29-28-30 S: (1/2-)22-28-36/37-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C

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							0,1 % ≤ C < 0,25 %: Xn; R22
015-006-00- X	Zinc diphosphide; zinc phosphide	T	215-244-5 1314-84-7	F; R15/29 T+; R28 R32 N; R50-53	F; T+; N R: 15/29-28-36-37-43-45-60-61 S: (1/2-)28-36-37-43-45-60-61	C ≥ 7 %: T+, N; R22-50/53 1 % ≤ C T, N; R25-50/53 0,25 % ≤ C < 1 %: Xn, N; R22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R22- R51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
015-019-00- X	dichlorvos (ISO); 2,2- dichlorovinyl dimethyl phosphate		200-547-7 62-73-7	T+; R26 T; R24/25 R43 N; R50	T+; N R: 24/25-26-43-50 S: (1/2-)28-36/37-43-61	C ≥ 25 %: T+, N; R24/25-26-43-50 < 25 %: T+, N; R21/22-26-43-50 3 % ≤ C < 7 %: T, N; R21/22-23-43-50 1 % ≤ C < 3 %: T, N; R23-43-50 0,1 % ≤ C < 1 %: Xn, N; R20-50	



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							0,025 % ≤ C < 0,1 %: N; R50
015-048-00	Orthion (ISO); O,O- dimethyl-O- (4- methylthion- <i>m</i> - tolyl) phosphorothioate		200-231-955-38-9	Muta. Cat. 3; R68 T; R23-48/25 Xn; R21/22 N; R50-53	T; N R: 21/22-23-48/25-68-50/53 S: 25(1/2-)-36/37-48/25-68-50/53		C ≥ 25 %: R21/22-23-48/25-68-50/53 10-15-60-61 ≤ C < 25 %: T, N; R20-48/25-68-50/53 3 % ≤ C < 10 %: Xn, N; R20-48/22-68-50/53 1 % ≤ C < 3 %: Xn, N; R48/22-68-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53
015-056-00	Inphos- ethyl (ISO); O,O- diethyl 4- oxobenzotriazin-3- ylmethyl phosphorodithioate		220-147-62642-71-9	T+; R28 T; R24 N; R50-53	T+; N R: 24-28-50/53 S: (1/2-)-28-36/37-48/25-68-50/53		C ≥ 25 %: 5B+, N; R24-28-50/53 < 25 %: T+, N; R21-28-50/53 3 % ≤ C < 7 %: T, N; R21-25-50/53 1 % ≤ C < 3 %: T, N; R25-50/53 0,25 % ≤ C <

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						1 %: Xn, N; R22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R22-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
015-067-001	Phosalone (ISO); S-(6- chloro-2- oxobenzoxazolin-3- ylmethyl) O,O- diethyl phosphorodithioate	218-996-22310-17-0		T; R25 Xn; R20/21 R43 N; R50-53	T; N R: 20/21-25-43-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: R21-25-50/53 7-45-60-61 < 25 %: Xn, N; R22-50/53 0,025 % ≤ C < 3 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
015-114-001	Formephos (ISO); S- chloromethyl O,O- diethyl phosphorodithioate	246-538-124934-91-0		T+; R27/28 N; R50-53	T+; N R: 27/28-50/53 S: (1/2-)27-28-36/37-45-60-61	C ≥ 7 %: T+, N; R27/28-50/53 2,5 % ≤ 3-7 %: T, N; R24/25-50/53 1 % ≤ C < 2,5 %: T, N; R24/25-51/53 0,25 % ≤ C < 1 %:	

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						Xn, N; R21/22-51/53 0,1 % ≤ C < 0,25 %: Xn; R21/22-52/53 0,025 % ≤ C < 0,1 %: R52/53
015-115-001	Orthiophos (ISO); [isomeric reaction mixture in which O-2,5- dichlorophenyl-4- methylthiophenyl O,O- diethyl phosphorothioate predominates]	244-663-621	923-23-9	F+; R28 T; R24 N; R50-53	T+; N R: 24-28-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 25 %: S+; N; R24-28-50/53 < 25 %: T+, N; R21-28-50/53 3 % ≤ C < 7 %: T, N; R21-25-50/53 1 % ≤ C < 3 %: T, N; R25-50/53 0,1 % ≤ C < 1 %: Xn, N; R22-50/53 0,025 % ≤ C < 0,1 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53
015-140-008	azophos (ISO); O,O- diethyl-O-1- phenyl-1H-1,2,4- triazol-3-	245-986-524	017-47-8	F; R23/25 Xn; R21 N; R50-53	T; N R: 21-23/25-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: S+; N; R21-23/25-50/53 < 25 %: T, N; R21-23/25-50/53 0,0025 % ≤ C < 0,0025 %: R52/53

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	yl phosphorothioate					Xn, N; R20/22-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
016-084-007	6-sulfuron (ISO); 1-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-3-[2-(3,3,3-trifluoropropyl)phenylsulfonyl]urea	—	94125-34	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 0,25 % ≤ C < 25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
017-001-007	lorine	231-959-5	7782-50-5	T; R23 Xi; R36/37/38 N; R50	T; N R: 23-36/37/38-50 S: (1/2-)9-45-20	C ≥ 25 %: R23-36/37/38-50 20 % ≤ C < 25 %: Xn, N; R20-36/37/38-50 3 % ≤ C < 20 %: Xn, N; R20-50 0,25 % ≤ C < 3 %: N; R50	

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017-012-000	Calcium hypochlorite		231-908-77778-54-3	O; R8 C; R34 Xn; R22 R31 N; R50	O; C; N R: 8-22-31-34-50 S: (1/2-)26-36/39-45-61	C ≥ 25 %: C50; R22-34-50 R39-45-61 ≤ C < 25 %: C, N; R34-50 3 % ≤ C < 10 %: Xi, N; R37/38-41-50 2,5 % ≤ C < 3 %: Xi, N; R36-50 0,5 % ≤ C < 2,5 %: Xi; R36	
017-026-000	Chlorine dioxide		233-162-810049-04	O; R8 R6 T+; R26 C; R34 N; R50	O; T+; N R: 6-8-26-34-50 S: (1/2-)23-26/37/39-38-45-61	C ≥ 5 %: T+, N; R26-34-50 5 % ≤ C < 5 %: T+, N; R26-36/37/38-45-61 R26-36/37/38-50 1 % ≤ C < 2,5 %: T+; R26-36/37/38 0,5 % ≤ C < 1 %: T; R23-36/37/38 0,2 % ≤ C < 0,5 %: T; R23 0,02 % ≤ C < 0,2 %: Xn; R20	5
017-026-000	Chlorine dioxide ...	B %	233-162-810049-04	T; R25 C; R34 N; R50	T; N R: 25-34-50 S: (1/2-)23-26/36/37/39-45-61	C ≥ 25 %: T, N; R25-34-50 R36/37/39-45-61 ≤ C < 25 %:	

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							C, N; R22-34-50 3 % ≤ C < 10 %: Xn, N; R22-36/37/38-50 2,5 % ≤ C < 3 %: Xi, N; R36-50 0,3 % ≤ C < 2,5 %: Xi, R36	
027-004-005	Cobalt dichloride	E	231-589-47646-79-9	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 Xn; R22 R42/43 N; R50-53	T; N R: 49-60-22-42/43-68-50/53 S: 53-45-60-01,5 %	C ≥ 25 %: R49-60-22-42/43-68-50/53 0,5 % ≤ C < 25 %: T, N; R49-60-42/43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	1	
027-005-006	Cobalt sulfate	E	233-334-210124-43-6	Carc. Cat. 2; R49 Muta. Cat. 3; R68	T; N R: 49-60-22-42/43-68-50/53 S: 53-45-60-01,5 ≤ C < 25 %:	C ≥ 25 %: R49-60-22-42/43-68-50/53 0,5 ≤ C < 25 %:	1	

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					Repr. Cat. 2; R60 Xn; R22 R42/43 N; R50-53	T, N; R49-60-42/43-68-50/53 $1\% \leq C$ < 2,5 %: T, N; R49-60-42/43-68-51/53 $0,5\% \leq C < 1\%$ : T, N; R49-60-51/53 $0,25\% \leq C < 0,5\%$ : T, N; R49-51/53 $0,025\% \leq C < 0,25\%$ : T; R49-52/53 $0,01\% \leq C < 0,025\%$ : T; R49	
028-002-0017	kel	S	231-111-4	7440-02-0	Carc. Cat. 3; R40 T; R48/23 R43	T R: 40-43-48/23 S: (2-)36/37/39-45	7
028-009-0015	kel sulfate	E	232-104-9	77786-81-4	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-20/22-38-42/43-48/23-68-50/53 S: 53-45-60-20 % $\leq C < 25\%$ : T, N; R49-61-38-42/43-48/23-68-51/53 $2,5\% \leq C < 20\%$ : T, N; R49-61-42/43-48/23-68-51/53 $1\% \leq C < 2,5\%$ : T; R49-61-42/43-48/23-68-52/53 $0,5\% \leq C < 1\%$ : T; R49-61-43-48/20-52/53	

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						0,25 % ≤ C < 0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43	
028-010-0010	nickel carbonate; basic nickel carbonate; carbonic acid, nickel (2+) salt; [1] carbonic acid, nickel salt; [2] [μ-[carbonato(2-)-O:O']] dihydroxytrinickel; [3] [carbonato(2-)] tetrahydroxytrinickel [4]	E	222-068-23333-67-3 [1] 240-408-816337-84- [2] 265-748-465405-96- [3] 235-715-912607-70- [4]	23333-67-3 [1] 16337-84- [2] 465405-96- [3] 12607-70- [4]	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-20/22-38-42/43-48/23-68-50/53 S: 53-45-60-61	
042-001-0010	niobium trioxide		215-204-71313-27-5		Carc. Cat. 3; R40 Xi; R36/37	Xn R: 36/37-40 S: (2-)22-36/37	
042-002-0018	nickel(II) hexakis(dimethylidene)tetra-μ3-oxodi-μ5-oxotetradecaooctamolybdate(4-)		215-204-71313-27-5		Xi; R41	T R: 23-41 S: (1/2-)26-36/37/39-45	
080-006-0018	mercury dicyanide oxide;		215-629-81335-31-5		E; R2 T; R23/24/25	E; T; N R: 52-23/24/25-33-50/53	



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	mercuric oxycyanide			R33 N; R50-53	S: (1/2-)28-36/37-45-60-61	
082-004-00	Lead chromate	231-846-0	7758-97-6	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61	1
082-009-00 X	Lead sulfochromate yellow; C.I. Pigment Yellow 34; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77603.]	215-693-7	1344-37-2	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61	1
082-010-00	Lead chromate molybdate sulfate red; C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour	235-759-9	12656-85-6	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61	1

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	Index Constitution Number, C.I. 77605.]						
601-006-00	pentane; C [1] isopentane; 2- methylbutane [2]		203-692-4 [1] 201-142-8 [2]	109-66-0 [1] 78-78-4 [2]	F+; R12 Xn; R65 R66 R67 N; R51-53	F+; Xn; N R: 12-65-66-67-51/53 S: (2-)9-16-29-33-61-62	4
601-007-00	hexane C (containing < 5 % n- hexane (203-777-6)); 2- methylpentane; [1] 3- methylpentane; [2] 2,2- dimethylbutane; [3] 2,3- dimethylbutane [4]		203-523-4 [1] 202-481-4 [2] 200-906-8 [3] 201-193-6 [4]	107-83-5 [1] 496-14-0 [2] 875-83-2 [3] 679-29-8 [4]	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-29-33-61-62	4
601-008-00	heptane; C n- heptane; [1] 2,4- dimethylpentane; [2] 2,2,3- trimethylbutane; [3] 3,3- dimethylpentane; [4] 2,3- dimethylpentane; [5] 3- methylhexane; [6] 2,2- dimethylpentane; [7]		205-563-8 [1] 203-548-0 [2] 207-346-3 [3] 209-230-8 [4] 209-280-0 [5] 209-643-3 [6] 209-680-5 [7] 209-730-6 [8] 210-529-0 [9] 250-610-8 [10]	142-82-5 [1] 108-08-7 [2] 346-06-2 [3] 562-49-2 [4] 565-59-3 [5] 589-34-4 [6] 590-35-2 [7] 591-76-4 [8] 617-78-7 [9] 31394-54-4 [10]	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	F; Xn; N R: 11-38-65-67-50/53 S: (2-)9-16-29-33-60-61-62	4

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	2-methylhexane; [8]							
	3-ethylpentane; [9]							
	isoheptane; [10]							
601-009-008	n-octane; [1]	C	203-892-1111-65-9 [1]	111-65-9 [1]	F; R11 Xn; R65	F; Xn; N R:		4
	2,2,4-trimethylpentane; [2]		208-759-1540-84-1 [2]	1540-84-1 [2]	Xi; R38 R67	11-38-65-67-50/53 S:		
	2,3,3-trimethylpentane; [3]		209-207-2560-21-4 [3]	2560-21-4 [3]	N; R50-53	(2-)9-16-29-33-60-61-62		
	3,3-dimethylhexane; [4]		209-243-9563-16-6 [4]	9563-16-6 [4]				
	2,2,3-trimethylpentane; [5]		209-266-4564-02-3 [5]	4564-02-3 [5]				
	2,3,4-trimethylpentane; [6]		209-292-6565-75-3 [6]	6565-75-3 [6]				
	3,4-dimethylhexane; [7]		209-504-7583-48-2 [7]	7583-48-2 [7]				
	2,3-dimethylhexane; [8]		209-547-1584-94-1 [8]	1584-94-1 [8]				
	2,4-dimethylhexane; [9]		209-649-6589-43-5 [9]	6589-43-5 [9]				
	4-methylheptane; [10]		209-650-1589-53-7 [10]	1589-53-7 [10]				
	3-methylheptane; [11]		209-660-6589-81-1 [11]	6589-81-1 [11]				
	2,2-dimethylhexane; [12]		209-689-4590-73-8 [12]	4590-73-8 [12]				
	2,5-dimethylhexane; [13]		209-745-8592-13-2 [13]	8592-13-2 [13]				
	2-methylheptane; [14]		209-747-9592-27-8 [14]	9592-27-8 [14]				
			209-855-6594-82-1 [15]	6594-82-1 [15]				
			210-187-2609-26-7 [16]	2609-26-7 [16]				
			210-621-0619-99-8 [17]	0619-99-8 [17]				
			213-923-01067-08-9 [18]	1067-08-9 [18]				
			247-861-026635-64-3 [19]	026635-64-3 [19]				

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	2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]						
601-017-00	cyclohexane	203-806-2	110-82-7	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	F; Xn; N R: 11-38-65-67-50/53 S: (2-)9-16-25-33-51-60-61-62		4
601-018-00	methylcyclohexane	203-624-3	108-87-2	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-33-61-62		4
601-019-00	1,4-dimethylcyclohexane	209-663-2	2589-90-2	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-33-61-62		4
601-021-00	toluene	203-625-9	108-88-3	F; R11 Repr.Cat.3 R63 Xn; R48/20-65 Xi; R38 R67	F; Xn R: 11-38-48/20-63-65-67 S: (2-)36/37-62		4
601-033-00	benz[a]anthracene	200-280-6	56-55-3	Carc. Cat. 2; R45 N; R50-53	T; N R: 45-50/53 S: 53-45-60-61	C ≥ 0,25 %: T, N; R45-50/53 0,1 % ≤ C < 0,25 %: T, N; R45-51/53	

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							0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53
601-037-00-0	hexane	203-777-6110-54-3	F; R11 Repr. Cat. 3; R62 Xn; R48/20-65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-48/20-62-65-67-51/53 S: (2-)9-16-20-36/37-61-62	C ≥ 25 %: R38-48/20-62-51/53 R38-48/20-62-51/53 R38-48/20-62-52/53 5 % ≤ C < 20 %: Xn; R48/20-62-52/53 2,5 % ≤ C < 5 %: R52/53	4	
601-041-00-0	Benz[ <i>a,h</i> ]anthracene	200-181-853-70-3	Carc. Cat. 2; R45 N; R50-53	T; N R: 45-50/53 S: 53-45-60-61	C ≥ 0,25 %: T, N; R45-50/53 0,025 % ≤ C < 0,25 %: T, N; R45-51/53 0,01 % ≤ C < 0,025 %: T; R45-52/53 0,0025 % ≤ C < 0,01 %: R52/53		
602-050-00-0	Acdrin; (1 $\alpha$ ,4 $\alpha$ ,4 $\beta$ ,5 $\beta$ ,8 $\beta$ ,8 $\alpha$ )- hexachloro-1,4,4a,5,8,8a- hexahydro-1,4:5,8- dimethanonaphthalene	207-366-2465-73-6	T+; R26/27/28 N; R50-53	T+; N R: 26/27/28-50/53 S: (1/2-)13-28-36/37-45-60-61	C ≥ 7 %: T+, N; R26/27/28-50/53 1 % ≤ C T, N; R23/24/25-50/53		

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						0,25 % ≤ C < 1 %: Xn, N; R20/21/22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R20/21/22-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
602-052-00-01	Orlosulfan (ISO); 1,2,3,4,7,7- hexachloro-8,9,10- trinorborn-2- en-5,6- ylenedimethyl sulfite; 1,4,5,6,7,7- hexachloro-8,9,10- trinorborn-5- en-2,3- ylenedimethylene) sulfite	204-079-4	115-29-7	T+; R26/28 Xn; R21 N; R50-53	T+; N R: 21-26/28-50/53 S: (1/2-)28-36/37-45-60-61-63		
602-076-00-01	1,1,1,3,4- trichlorobut-1- ene	219-397-9	2431-50-7	Carc. Cat. 3; R40 T; R23 Xn; R22 Xi; R36/37/38 N; R50-53	T; N R: 22-23-36/37/38-40-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: 37/38-40-50/53 R22-23-36/37/38-40-50/53 20-50-60-61 ≤ C < 25 %: Xn, N; R20-36/37/38-40-51/53 3 % ≤ C < 20 %: Xn, N; R20-40-51/53 2,5 % ≤ C < 3 %: Xn, N; R40-51/53 0,25 % ≤ C <	

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							2,5 %: Xn; R40-52/53 0,1 % ≤ C < 0,25 %: Xn; R40
602-080-00	alkanes, C <sub>10-13</sub> , chloro; chlorinated paraffins, C <sub>10-13</sub>	287-476-5	585535-84	Carc. Cat 3; R40 R66 N; R50-53	Xn; N R: 40-66-50/53 S: (2-)24-36/37-46-60-61		
603-003-00	propan-1- ol; n- propanol	200-746-9	71-23-8	F; R11 Xi; R41 R67	F; Xi R: 11-41-67 S: (2-)7-16-24-26-39		
603-004-00	butan-1- ol; n- butanol	200-751-6	71-36-3	R10 Xn; R22 Xi; R37/38-41 R67	Xn R: 10-22-37/38-41-67 S: (2-)7/9-13-26-37/39-46		
603-022-00	diethyl ether; ether	200-467-2	60-29-7	F+; R12 R19 Xn; R22 R66 R67	F+; Xn R: 12-19-22-66-67 S: (2-)9-16-29-33		
603-032-00	ethylene dinitrate; ethylene glycol dinitrate	211-063-0	628-96-6	E; R3 T+; R26/27/28 R33	E; T+ R: 23-26/27/28-33 S: (1/2-)27/28-33-35-36/37-45		
603-037-00	dulose nitrate; nitrocellulose, containing more than 12,6 % nitrogen	—	—	E; R3	E R: 3 S: (2-)35		
603-045-00 X	diisopropyl ether; [1] dipropyl ether [2]	203-560-6 [1] 203-869-6 [2]	108-20-3 [1] 111-43-3 [2]	F; R11 R19 R66 R67	F R: 11-19-66-67 S: (2-)9-16-29-33		
603-085-00	isopropanol (INN);	200-143-0	52-51-7	Xn; R21/22	Xn; N C ≥ 25 %:		

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	2-bromo-2-nitropropane-1,3-diol				Xi; R37/38-41 N; R50	R: 121/22-37/38-41-50 S: (2-)26-36/37-39-61	Xn, N; 20 % 25 %: Xi, N; R37/38-41-50 10 % $\leq C < 20$ %: Xi, N; R41-50 $5 \% \leq C < 10$ %: Xi, N; R36-50 $2,5 \% \leq C < 5$ %: N; R50	
603-108-00-1	methylpropan-1-ol; iso-butanol		201-148-078-83-1	R10 Xi; R37/38-41 R67	Xi R: 110-37/38-41-67 S: (2-)7/9-13-26-37/39-46			
603-117-00-0	propan-2-ol; isopropyl alcohol; isopropanol		200-661-767-63-0	F; R11 Xi; R36 R67	F; Xi R: 11-36-67 S: (2-)7-16-24/25-26			
603-127-00-0	butan-2-ol; [1] (S)-butan-2-ol; [2] (R)-butan-2-ol; [3] (±)-butan-2-ol [4]	C	201-158-578-92-2 [1] 224-168-14221-99-2 [2] 238-967-814898-79-4 [3] 240-029-815892-23-6 [4]	R10 Xi; R36/37 R67	Xi R: 10-36/37-67 S: (2-)7/9-13-24/25-26-46			
604-005-00-4	4-dihydroxybenzene; hydroquinone; quinol		204-617-8123-31-9	Carc. Cat. 3; R40 Muta. Cat. 3; R68 Xn; R22 Xi; R41 R43 N; R50	Xn; N R: 22-40-41-43-68-50 S: (2-)26-36/37-39-61	$C \geq 25$ %: Xn, N; R40-41-43-68-50 $5 \% \leq C < 10$ %:		



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						Xn, N; R36-40-43-68-50 2,5 % ≤ C < 5 %: Xn, N; R40-43-68-50 1 % ≤ C < 2,5 %: Xn; R40-43-68
604-030-00-6	Diphenol A; 4,4'- isopropylidenediphenol	201-245-880-05-7		Repr. Cat. 3; R62 Xi; R37-41 R43 R52	Xn R: 37-41-43-62-52 S: (2-)26-36/37-39-46-61	
604-055-00-2'	((3,3',5,5'- tetramethyl- (1,1'- biphenyl)-4,4'- diyl)- bis(oxymethylene))- bis- oxirane	413-900-785954-11		Carc. Cat. 3; R40 R43	Xn R: 40-43 S: (2-)22-36/37	
605-010-00-4	furaldehyde	202-627-798-01-1		Carc. Cat. 3; R40 T; R23/25 Xn; R21 Xi; R36/37/38	T R: 21-23/25-36/37/38-40 S: (1/2-)26-36/37-45	
606-001-00-8	acetone; propan-2- one; propanone	200-662-267-64-1		F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)9-16-26-46	
606-002-00-3	butanone; ethyl methyl ketone	201-159-078-93-3		F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)9-16	
606-006-00-5	pentan-3- one; diethyl ketone	202-490-396-22-0		F; R11 Xi; R37 R66 R67	F; Xi R: 11-37-66-67 S: (2-)9-16-25-33	

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606-013-00-3	benzoquinone; quinone	203-405-2106-51-4	T; R23/25 Xi; R36/37/38 N; R50	T; N R: 23/25-36/37/38-50 S: (1/2-)26-28/35-61	C ≥ 25 %: R23/25-36/37/38-50 2015-61 ≤ C < 25 %: Xn, N; R20/22-36/37/38-50 3 % ≤ C < 20 %: Xn, N; R20/22-50 2,5 % ≤ C < 3 %: N; R50	
606-030-00-6	hexan-2-one; methyl butyl ketone; butyl methyl ketone; methyl- n-butyl ketone	209-731-1591-78-6	R10 Repr. Cat. 3; R62 T; R48/23 R67	T R: 10-48/23-62/67-23-62 S: (1/2-)36/37-40	C ≥ 10 %: T; R23/25-36/37/38-50 5 % ≤ C 7-40 %: Xn; R48/20-62 1 % ≤ C < 5 %: Xn; R48/20	
606-034-00-8	tribuzin (ISO); 4- amino-6- <i>tert</i> - butyl-3- methylthio-1,2,4- triazin-5(4 <i>H</i> )- one; 4- amino-4,5- dihydro-6- (1,1- dimethylethyl)-3- methylthio-1,2,4- triazin-5- one	244-209-721087-64	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 2,5 % ≤ C < 25 %: N; R50/53 0,25 % ≤ C < 2,5 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
607-003-00-0	chloroacetic acid	201-178-479-11-8	T; R23/24/25 C; R34 N; R50	T; N R: 23/24/25-34-50 S: (1/2-)26-36/39-45-61-63	C ≥ 25 %: R23/24/25-34-50 1015-63 ≤ C <	

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							25 %: C; R20/21/22-34 5 % ≤ C < 10 %: Xn; R20/21/22-36/37/38 3 % ≤ C < 5 %: Xn; R20/21/22
607-016-00	isopropyl formate; [1] isopropyl formate [2]	C	203-798-0 [1] 210-901-2 [2]	110-74-7 [1] 2625-55-8 [2]	F; R11 Xi; R36/37 R67	F; Xi R: 11-36/37-67 S: (2-)9-16-24-33	
607-021-00 X	methyl acetate		201-185-2	279-20-9	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-29-33	
607-022-00	ethyl acetate		205-500-4	141-78-6	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-33	
607-024-00	isopropyl acetate; [1] isopropyl acetate [2]	C	203-686-1 [1] 203-561-1 [2]	109-60-4 [1] 1108-21-4 [2]	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-29-33	
607-025-00	n-butyl acetate		204-658-1	1123-86-4	R10 R66 R67	R: 10-66-67 S: (2-)25	
607-065-00 X	bromoacetic acid		201-175-8	779-08-3	T; R23/24/25 C; R35 R43 N; R50	T; C; N R: 23/24/25-35-43-50 S: (1/2-)26-36/37/39-45-61	
607-162-00	dalapon; 2,2-dichloropropionic acid; [1] dalapon-sodium; sodium 2,2-		200-923-0 [1] 204-828-5 [2]	075-99-0 [1] 127-20-8 [2]	Xi; R38-41 R52-53	Xi R: 38-41-52/53 S: (2-)26-39-61	

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	dichloropropionate [2]						
607-189-00-4	1,4-methylenediaminetetraacetic acid	400-400-9	1939-36-2	Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)22-26-39		
607-213-00-5	3,3-bis( <i>tert</i> -pentylperoxy)butyrate	403-320-2	267567-23	E; R3 O; R7 R10 N; R51-53	E; N R: 3-7-10-51/53 S: (2-)3/7-14-33-36/37/39-61		
607-252-00-6	lambda-cyhalothrin (ISO); A 1:1 mixture of: (S)- $\alpha$ -cyano-3-phenoxybenzyl( <i>Z</i> )-(1 <i>R</i> )- <i>cis</i> -3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate; (R)- $\alpha$ -cyano-3-phenoxybenzyl ( <i>Z</i> )-(1 <i>S</i> )- <i>cis</i> -3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate	415-130-7	91465-08	T+; R26 T; R25 Xn; R21 N; R50-53	T+; N R: 21-25-26-50/53 S: (1/2-)28-36/37/39-45-60-61	C $\geq$ 25 %: T+; N; R22-26-50/53 3 % $\leq$ C < 7 %: T, N; R22-23-50/53 1 % $\leq$ C < 3 %: T, N; R23-50/53 0,1 % $\leq$ C < 1 %: Xn, N; R20-50/53 0,0025 % $\leq$ C < 0,1 %: N; R50/53 0,00025 % $\leq$ C < 0,0025 %: N; R51/53 0,000025 % $\leq$ C < 0,00025 %: R52/53	
607-253-00-7	fluthrin (ISO); $\alpha$ -cyano-4-fluoro-3-phenoxybenzyl-3-	269-855-7	68359-37	T+; R28 T; R23 N; R50-53	T+; N R: 23-28-50/53 S: (1/2-)28-36/37/39-45-60-61	C $\geq$ 25 %: SB+; N; R23-28-50/53 < 25 %:	

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	(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate					T+, N; R20-28-50/53 3 % ≤ C < 7 %: T, N; R20-25-50/53 1 % ≤ C < 3 %: T, N; R25-50/53 0,1 % ≤ C < 1 %: Xn, N; R22-50/53 0,025 % ≤ C < 0,1 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
607-319-00 X	deltamethrin (ISO); (S)-α-cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate	258-256-652918-63	T; R23/25 N; R50-53	T; N R: 23/25-50/53 S: (1/2-)24-28-36/37/39-38-45-60-61	C ≥ 25 %: N; R23/25-50/53 < 25 %: Xn, N; R20/22-50/53 0,000025 % ≤ C < 3 %: N; R50/53 0,000025 % ≤ C < 0,000025 %: N; R51/53 0,0000025 % ≤ C < 0,000025 %: R52/53		
607-422-00 X	cypermethrin (ISO);	257-842-967375-30	T; R25 Xn; R48/22	T; N R: 25-37-48/22-50/53	C ≥ 25 %: R22-50/53		

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	racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate			Xi; R37 N; R50-53	S: (1/2-)36/37	T, N; R39-43-68/61-50/53 20 % $\leq C < 25$ %: Xn, N; R22-37-48/22-50/53 10 % $\leq C < 20$ %: Xn, N; R22-48/22-50/53 3 % $\leq C < 10$ %: Xn, N; R22-50/53 0,025 % $\leq C < 3$ %: N; R50/53 0,0025 % $\leq C < 0,025$ %: N; R51/53 0,00025 % $\leq C < 0,0025$ %: R52/53	
608-014-004	4-chlorothalonil (ISO); tetrachloroisophthalonitrile	217-588-1	1897-45-6	Carc. Cat. 3; R40 T+; R26 Xi; R37-41 R43 N; R50-53	T+; N R: 26-37-40-41-43-50/53 S: (1/2-)28-36/39-45-60-61	C $\geq 20$ %: R26-37-40-41-43-50/53 R26-37-40-41-43-50/53 $\leq C < 20$ %: T+, N; R26-40-41-43-50/53 7 % $\leq C < 10$ %: T+, N; R26-40-36-43-50/53 5 % $\leq C < 7$ %: T, N; R23-40-36-43-50/53 2,5 % $\leq C < 5$ %: T, N; R23-40-43-50/53 1 % $\leq C < 2,5$ %:	

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							T, N; R23-40-43-51/53 0,25 % ≤ C < 1 %: Xn, N; R20-51/53 0,1 % ≤ C < 0,25 %: Xn; R20-52/53 0,025 % ≤ C < 0,1 %: R52/53
608-034-001	lorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile	—	122453-7310	R23 Xn; R22 N; R50-53	T; N R: 22-23-50/53 S: (1/2-)13-38/37-45-60-61	C ≥ 25 %: 5B, N; R23-22-50/53 < 25 %: Xn, N; R20-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
608-058-004	fenvalerate (ISO); (S)-α-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate	—	66230-044	T; R23/25 R43 N; R50-53	T; N R: 23/25-43-50/53 S: (1/2-)24-38/37-39-45-60-61	C ≥ 25 %: 5D, 5B R23/25-43-50/53 < 25 %: Xn, N; R20/22-43-50/53 1 % ≤ C < 3 %: Xi, N; R43-50/53 0,0025 % ≤ C <	

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							1 %: N; R50/53 0,00025 % ≤ C < 0,0025 %: N; R51/53 0,000025 % ≤ C < 0,00025 %: R52/53
609-005-00	2,4,6-trinitrobenzene		202-752-799-35-4	E; R3 T+; R26/27/28 R33 N; R50-53	E; T+; N R: R26/27/28-33-50/53 S: (1/2-)28-36/37-45-60-61		
609-009-00 X	2,4,6-trinitrophenol; picric acid		201-865-988-89-1	E; R3 R4 T; R23/24/25	E; T R: 3-4-23/24/25 S: (1/2-)28-35-36/37-45		
609-018-00	2,4,6-trinitroresorcinol; styphnic acid		201-436-682-71-3	E; R3 R4 Xn; R20/21/22	E; Xn R: 3-4-20/21/22 S: (2-)35-36/37		
609-023-00	dicap (ISO); (RS)-2,6-dinitro-4-octylphenyl crotonates and (RS)-2,4-dinitro-6-octylphenyl crotonates in which "octyl" is a mixture of 1-methylheptyl, 1-ethylhexyl and 1-propylpentyl groups	E	254-408-039300-45	Repr. Cat. 2; R61 Xn; R20/22-48/53 Xi; R38 R43 N; R50-53	T; N R: 61-20/22-38-43-48/22-50/53 S: 61-20/22-38-43-48/22-50/53	C ≥ 25 %: R61-20/22-38-43-48/22-50/53 10 % ≤ C < 25 %: T, N; R61-38-43-48/22-50/53 10 % ≤ C < 20 %: T, N; R61-43-48/22-50/53 1 % ≤ C < 10 %: T, N; R61-43-50/53 0,5 % ≤ C < 1 %: T, N; R61-50/53 0,25 % ≤ C <	



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						0,5 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
609-046-00	ifluralin (ISO) (containing < 0.5 ppm NPDA); α,α,α- trifluoro-2,6- dinitro- <i>N,N</i> - dipropyl- <i>p</i> - toluidine (containing < 0.5 ppm NPDA); 2,6- dinitro- <i>N,N</i> - dipropyl-4- trifluoromethylaniline (containing < 0.5 ppm NPDA); <i>N,N</i> - dipropyl-2,6- dinitro-4- trifluoromethylaniline (containing < 0.5 ppm NPDA)	216-428-8	1582-09-8	Carc. Cat. 3; R40 R43 N; R50-53	Xn; N R: 40-43-50/53 S: (2-)36/37-40/60-61	C ≥ 2,5 %: Xn, N; R40-43-50/53 C1 < 2,5 %: Xn, N; R40-43-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
611-067-00	A6 mixture of: bis(tris(2- (2- hydroxy(1- methyl)ethoxy)ethyl)ammonium) 7- anilino-4- hydroxy-3- (2- methoxy-5- methyl-4-	406-910-8	—	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)22-61		

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	(4-sulfonatophenylazo)phenylazo)naphthalene-2-sulfonate; bis(tris(2-(2-hydroxy(2-methyl)ethoxy)ethyl)ammonium) 7-anilino-4-hydroxy-3-(2-methoxy-5-methyl-4-(4-sulfonatophenylazo)phenylazo)naphthalene-2-sulfonate						
611-130-00	Tetra-ammonium 2-[6-[7-(2-carboxylatophenylazo)-8-hydroxy-3,6-disulfonato-1-naphthylamino]-4-hydroxy-1,3,5-triazin-2-ylamino]benzoate	418-520-5	183130-9	Xi; R36 R52-53	Xi R: 36-52/53 S: (2-)26-39-61		
612-017-00	6-methyl-N-2,4,6-tetranitroaniline; tetryl	207-531-9	479-45-8	E; R3 T; R23/24/25 R33	E; T R: 53-23/24/25-33 S: (1/2-)35-36/37-45-63		
612-018-00	1-(2,4,6-trinitrophenyl)amine; hexyl	205-037-8	131-73-7	E; R3 T+; R26/27/28 R33 N; R51-53	E; T+; N R: 83-26/27/28-33-51/53 S: (1/2-)27/28-35-36/37-45-61-63		
612-019-00	1,3-bis(picrylamino)propane, ammonium salt	220-639-0	2844-92-0	E; R3 T+; R26/27/28 R33 N; R51-53	E; T+; N R: 83-26/27/28-33-51/53 S: (1/2-)27/28-36/37-45-61-63		
612-034-00	9-amino-4,6-dinitrophenol; picramic acid	202-544-6	96-91-3	E; R2 Xn; R20/21/22 R52-53	E; Xn R: 22-20/21/22-52/53 S: (2-)35-36/37-46-61		

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612-057-00	Piperazine; [solid]		203-808-3	110-85-0	Repr. Cat. 3; R62-63 C; R34 R42/43	Xn; C R: 34-42/43-62-63 S: (1/2-)22-26-36/37/39-45		
612-083-00	6-methyl-3-nitro-1-nitrosoguanidine	E	200-730-1	70-25-7	Carc. Cat. 2; R45 Xn; R20 Xi; R36/38 N; R51-53	T; N R: 45-20-36/38-51/53 S: 53-45-61	C ≥ 25 %: R45-20-36/38-51/53 20 % ≤ C < 25 %: T; R45-36/38-52/53 2,5 % ≤ C < 20 %: T; R45-52/53 0,01 % ≤ C < 2,5 %: T; R45	
612-094-00	6-chloro-4-(trifluoromethyl)phenoxy-2-fluoroaniline hydrochloride		402-190-4	113674-9	T; R48/25 Xn; R22-48/20S Xi; R41 R43 N; R50-53	T; N R: 22-41-43-48/20-48/25-50/53 S: (1/2-)26-36/37/39-45-60-61		
612-098-00	Dirosodipropylamine		210-698-0	621-64-7	Carc. Cat. 2; R45 Xn; R22 N; R51-53	T; N R: 45-22-51/53 S: 53-45-61	C ≥ 25 %: R45-22-51/53 2,5 % ≤ C < 25 %: T; R45-52/53 0,001 % ≤ C < 2,5 %: T; R45	
612-122-00	Hydroxylamine [>55 % in aqueous solution]		232-259-2	7803-49-8	E; R2 Carc. Cat. 3; R40 Xn; R21/22-48S Xi; R37/38-41 R43 N; R50	E; Xn; N R: 2-21/22-37/38-40-41-43-48/22-50 S: (2-)26-36/37/39-61		

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612-123-00-2	hydroxylammonium chloride; hydroxylamine hydrochloride; [1] bis(hydroxylammonium) sulfate; hydroxylamine sulfate (2:1) [2]	226-798-2 [1] 233-118-8 [2]	25470-11-1 [1] 10039-54-0 [2]	E; R2 Carc. Cat. 0; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50	E; Xn; N R: 2-21/22-36/38-40-43-48/22-50 S2 (2-)36/37-61		
613-003-00-2	2,3,4-tetranitrocarbazole	—	6202-15-9	E; R2 Xn; R20/21/22-20/21/22	E; Xn R: S: (2-)35-36/37		
613-010-00-0	metryn (ISO); 2-ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine	212-634-7	7834-12-8	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)36-60-61	C ≥ 25 %: Xn, N; R22-50/53 0,25 % ≤ C < 25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-030-00-X	troclosene potassium; [1] troclosene sodium [2]	218-828-8 [1] 220-767-7 [2]	2244-21-5 [1] 2893-78-9 [2]	E; R2 O; R8 Xn; R22 Xi; R36/37 R31 N; R50-53	E; Xn; N R: 2-8-22-31-30-36-50/53 S: (2-)8-26-41-45-60-61	C ≥ 25 %: Xn, N; R22-31-36/37-51/53 10 % 25 %: Xn, N; R22-31-36/37-51/53 2,5 % ≤ C < 10 %: N; R51/53 0,25 % ≤ C < 2,5 %: R52/53	

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613-044-006	capitan (ISO); 1,2,3,6- tetrahydro- <i>N</i> - (trichloromethylthio)	205-087-0133-06-2	phthalimide	Carc. Cat. 3; R40 T; R23 Xi; R41 R43 N; R50	T; N R: 23-40-41-43-50 S: (1/2-)26-29-36/37/39-45-61	C ≥ 25 %: 43-50 R23-40-41-43-50 R36/37/39-45-61 ≤ C < 25 %: Xn, N; R20-40-41-43-50 5 % ≤ C < 10 %: Xn, N; R20-36-40-43-50 3 % ≤ C < 5 %: Xn, N; R20-40-43-50 2,5 % ≤ C < 3 %: Xn, N; R40-43-50 1 % ≤ C < 2,5 %: Xn; R40-43	
613-045-006	capit (ISO); <i>N</i> - (trichloromethylthio)	205-088-6133-07-3	phthalimide	Carc. Cat. 3; R40 Xn; R20 Xi; R36 R43 N; R50	Xn; N R: 20-36-40-43-50 S: (2-)36/37-40-61	C ≥ 25 %: 43-50 R20-36-40-43-50 R36/37/39-45-61 ≤ C < 25 %: Xn, N; R36-40-43-50 2,5 % ≤ C < 20 %: Xn, N; R40-43-50 1 % ≤ C < 2,5 %: Xn; R40-43	
613-060-006	permethrin (ISO); 5- benzyl-3- furylmethyl (±)- <i>cis</i> / <i>trans</i> - chrysanthemate	233-940-710453-86		Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 0,025 % ≤ C < 25 %:	

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							N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53
613-120-0010	oresmethrin (ISO); (5-benzylfur-3-yl)methyl- dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate	249-014-028434-01			N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53
613-139-0012	etsulfuron- methyl (ISO); 2-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl) benzoic acid	—	74223-64		N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53
613-163-0023	msulfuron (ISO); 1-(4,6-dimethoxypyrimidin-2-yl)-3-[1-methyl-4-(2-methyl-2H-tetrazol-5-yl)pyrazol-5-ylsulfonyl]urea	—	120162-55		N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53

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613-164-0019	Ofenacet (ISO); N-(4- fluorophenyl)-N- isopropyl-2- (5- trifluoromethyl- [1,3,4]thiadiazol-2- yloxy)acetamide	—	142459-58	Xn; R22-48/22-53 R43 N; R50-53	Xn; N R: 22-43-48/22-50/53 S: (2-)13-24-30-60-61	C ≥ 25 %: R22-43-48/22-50/53 R22-43-48/22-50/53 ≤ C < 25 %: Xn, N; R43-48/22-50/53 1 % ≤ C < 10 %: Xi, N; R43-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-165-0014	Pyrsulfuron- methyl- sodium (ISO); methyl 2-[[[(4,6- dimethoxypyrimidin-2- ylcarbonyl)sulfamoyl]-6- trifluoromethyl]nicotinate, monosodium salt	—	144740-54	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-166-001X	Humioxazin (ISO); N-(7- fluoro-3,4- dihydro-3- oxo-4- prop-2- ynyl-2H-1,4- benzoxazin-6- yl)cyclohex-1- ene-1,2- dicarboxamide	—	103361-09	R: Cat. 2; R61 N; R50-53	T; N R: 61-50/53 S: 53-45-60-61	C ≥ 0,5 %: T, N; R61-50/53 0,025 % ≤ C < 0,5 %: N; R50/53 0,0025 % ≤ C < 0,025 %:	

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						N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-169-00-6	vinylcarbazole	216-055-01484-13-5		Muta. Cat. 3; R68 Xn; R21/22 Xi; R38 R43 N; R50-53	Xn; N R: 21/22-38-43-68-50/53 S: (2-)22-23-36/37-60-61	C ≥ 25 %: R21/22-38-43-68-50/53 R21/22-38-43-68-50/53 ≤ C < 25 %: Xn, N; R38-43-68-50/53 1 % ≤ C < 20 %: Xn, N; R43-68-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-174-00-6	teraconazole (ISO); (+/-) 2- (2,4- dichlorophenyl)-3- (1H-1,2,4- triazol-1- yl)propyl-1,1,2,2- tetrafluoroethylether	407-760-6112281-7		Xn; R20/22 N; R51-53	Xn; N R: 20/22-51/53 S: (2-)36-61		
613-203-00-X	pyraflufen- ethyl (ISO); 2- chloro-5- (4- chloro-5- difluoromethoxy-1- methylpyrazol-3- yl)-4-	— —	[1] [2]	129630-19-9 R50-53 129630-17-7	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53	



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	fluorophenoxyacetic acid ethyl ester; [1] pyraflufen (ISO); 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-4-fluorophenoxyacetic acid [2]					0,00025 % ≤ C < 0,0025 %: R52/53	
613-204-005	oxadiargyl (ISO); 3-[2,4-dichloro-5-(2-propynyloxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one; 5-tert-butyl-3-[2,4-dichloro-5-(prop-2-ynyloxy)phenyl]-1,3,4-oxadiazol-2(3H)-one	254-637-639	807-15	Repr. Cat. 3; R63 Xn; R48/22 N; R50-53	Xn; N R: 48/22-63-50/53 S: (2-)36/37-40/60-61	C ≥ 10 %: Xn, N; R48/22-63-50/53 < 10 %: Xn, N; R63-50/53 0,025 % ≤ C < 5 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
614-005-006	chlorzoxazone	200-598-564	86-8	Muta. Cat. 2; R46 T+; R28	T+ R: 46-28 S: 53-45		
615-005-009	C-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenebis(4-chlorodiphenyl diisocyanate); [2] 2,2'-methylenebis(4-fluorodiphenyl diisocyanate); [3] 2,2'-methylenebis(4-methoxydiphenyl diisocyanate); [4]	202-966-011	101-68-8	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43	Xn R: 20-36/37/38-40-42/43-48/20 S: (1/2-)23-36/37-40/45	C ≥ 25 %: Xn, N; R20-36/37/38-40-42/43-48/20 < 25 %: Xn; R36/37/38-40-42/43-48/20 5 % ≤ C < 10 %:	2



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	hydroxycyclohexyl peroxide; [1] 1,1'-dioxycyclohexanol; [2] cyclohexylidene hydroperoxide; [3] cyclohexanone, peroxide [4]		219-306-22407-94-5 [2] 220-279-42699-11-8 [3] 235-527-712262-58-7 [4]	Xn; R22 [2] [3] [4]	S: (1/2-)3/7-1436/37/39-45	10 % 25 %: C; R34 5 % ≤ C < 10 %: Xi; R36/37/38	
648-002-006	Tar oils, brown-coal; Light Oil; [The distillate from lignite tar boiling in the range of approximately 80 °C to 250 °C (176 °F to 482 °F). Composed primarily of aliphatic and aromatic hydrocarbons and monobasic phenols.]	H J	302-674-494114-40	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-003-006	Benzol forerunnings (coal); Light Oil Redistillate, low boiling; [The distillate from	H J	266-023-565996-88	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	coke oven light oil having an approximate distillation range below 100 °C (212 °F). Composed primarily of C <sub>4</sub> to C <sub>6</sub> aliphatic hydrocarbons.]						
648-004-007	Distillates H J (coal tar), benzole fraction, BTX-rich; Light Oil Redistillate, low boiling; [A residue from the distillation of crude benzole to remove benzole fronts. Composed primarily of benzene, toluene and xylenes boiling in the range of approximately 75 °C to 200 °C	309-984-9101896-26			Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	(167 °F to 392 °F).]						
648-005-00	Aromatic hydrocarbons, C <sub>6-10</sub> , C <sub>8</sub> -rich; Light Oil Redistillate, low boiling	H J	292-697-590989-41		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-006-00	Solvent naphtha (coal), light; Light Oil Redistillate, low boiling	H J	287-498-585536-17		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-007-00	Solvent naphtha (coal), xylene-styrene cut; Light Oil Redistillate, intermediate boiling	H J	287-502-585536-20		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-008-00	Solvent naphtha (coal), coumarone-styrene contg.; Light Oil Redistillate, intermediate boiling	H J	287-500-485536-19		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-009-00	Naphtha (coal), distn. residues; Light Oil Redistillate,	H J	292-636-290641-12		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	high boiling; [The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.]						
648-010-00 X	Aromatic hydrocarbons, C <sub>8</sub> ; Light Oil Redistillate, high boiling	H J	292-694-990989-38		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-012-00	Aromatic hydrocarbons, C <sub>8-9</sub> , hydrocarbon resin polymn. by-product; Light Oil Redistillate, high boiling; [A complex combination of hydrocarbons obtained from the evaporation of solvent	H J	295-281-191995-20		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	under vacuum from polymerized hydrocarbon resin. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>8</sub> through C <sub>9</sub> and boiling in the range of approximately 120 °C to 215 °C (248 °F to 419 °F).]							
648-013-00	Aromatic hydrocarbons, C <sub>9-12</sub> , benzene distn.; Light Oil Redistillate, high boiling	H J	295-551-99	2062-36	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-014-00	Extract residues (coal), benzole fraction alk., acid ext.; Light Oil Extract	H J	295-323-99	1995-61	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	Residues, low boiling; [The redistillate from the distillate, freed of tar acids and tar bases, from bituminous coal high temperature tar boiling in the approximate range of 90 °C to 160 °C (194 °F to 320 °F). It consists predominantly of benzene, toluene and xylenes.]						
648-015-00	Extract residues (coal tar), benzole fraction alk., acid ext.; Light Oil Extract Residues, low boiling; [A complex combination	H J	309-868-8	101316-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	



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	of hydrocarbons obtained by the redistillation of the distillate of high temperature coal tar (tar acid and tar base free). It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85 °C to 195 °C (185 °F to 383 °F).]						
648-016-00	Extract residues (coal), benzole fraction acid; Light Oil Extract Residues, low boiling; [An acid sludge by-product of the sulfuric acid refining of crude	H J	298-725-293821-38	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	high temperature coal. Composed primarily of sulfuric acid and organic compounds.]						
648-017-00	Extract residues (coal), light oil alk., distn. overheads; Light Oil Extract Residues, low boiling; [The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oil boiling substantially below 145 °C (293 °F). Composed primarily of C <sub>7</sub> and C <sub>8</sub> aliphatic and	H J	292-625-290641-02	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	aromatic hydrocarbons.]							
648-018-00	Extract residues (coal), light oil alk., acid ext., indene fraction; Light Oil Extract Residues, intermediate boiling	H J	309-867-2101316-62		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-019-00	Extract residues (coal), light oil alk., indene naphtha fraction; Light Oil Extract Residues, high boiling; [The distillate from aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oils, having an approximate boiling range of	H J	292-626-890641-03		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	155 °C to 180 °C (311 °F to 356 °F). Composed primarily of indene, indan and trimethylbenzenes.]						
648-020-06	Solvent naphtha (coal); [The distillate from either high temperature coal tar, coke oven light oil, or coal tar oil alkaline extract residue having an approximate distillation range of 130 °C to 210 °C (266 °F to 410 °F). Composed primarily of indene and other polycyclic ring systems containing a single	H J	266-013-06	5996-79-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	aromatic ring. May contain phenolic compounds and aromatic nitrogen bases.]; Light Oil Extract Residues, high boiling						
648-021-00 X	Distillates H J (coal tar), light oils, neutral fraction; Light Oil Extract Residues, high boiling; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of alkyl-substituted one ring aromatic hydrocarbons boiling in the range of approximately 135 °C to 210 °C (275 °F		309-971-8	101794-9005	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	to 410 °F). May also include unsaturated hydrocarbons such as indene and coumarone.]						
648-022-00	Distillates (coal tar), light oils, acid exts.; Light Oil Extract Residues, high boiling; [This oil is a complex mixture of aromatic hydrocarbons, primarily indene, naphthalene, coumarone, phenol, and <i>o</i> -, <i>m</i> - and <i>p</i> -cresol and boiling in the range of 140 °C to 215 °C (284 °F to 419 °F).]	H J	292-609-590640-87	Exc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-023-00	Distillates (coal tar),	H J	283-483-284650-03	Exc. Cat. 2; R45	T R: 45-46 S: 53-45		

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	light oils; Carbolic Oil; [A complex combination of hydrocarbons obtained by distillation of coal tar. It consists of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills at the approximate range of 150 °C to 210 °C (302 °F to 410 °F).]				Muta. Cat. 2; R46		
648-024-006	oil; coal; Carbolic Oil; [The distillate from high temperature coal tar having an approximate distillation range of	H J	266-016-7	65996-82-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	130 °C to 250 °C (266 °F to 410 °F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.]						
648-026-00-7	Extract residues (coal), light oil alk., acid ext.; Carbolic Oil Extract Residue; [The oil resulting from the acid washing of alkali- washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan	H J	292-624-790641-01	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		



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	and alkylbenzenes.]						
648-027-00	Extract residues (coal), tar oil alk.; Carbolitic Oil Extract Residue; [The residue obtained from coal tar oil by an alkaline wash such as aqueous sodium hydroxide after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.]	H J	266-021-46	5996-87	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-028-00	Extract oils (coal), light oil; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed carbolitic	H J	292-622-69	0640-99	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]						
648-029-00	Pyridine, alkyl derivs.; Crude Tar Bases; [The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150 °C (302 °F) from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.]	H J	269-929-9	68391-11	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-030-00	Tar bases, coal,	H J	295-548-2	92062-33	Carc. Cat. 2; R45	T R: 45-46 S: 53-45	

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	picoline fraction; Distillate Bases; [Pyridine bases boiling in the range of approximately 125 °C to 160 °C (257 °F 320 °F) obtained by distillation of neutralized acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed chiefly of lutidines and picolines.]				Muta. Cat. 2; R46		
648-031-00	Tar bases, coal, lutidine fraction; Distillate Bases	H J	293-766-291082-52		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-032-00 X	Extract oils (coal), tar base,	H J	273-077-368937-63		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	collidine fraction; Distillate Bases; [The extract produced by the acidic extraction of bases from crude coal tar aromatic oils, neutralization, and distillation of the bases. Composed primarily of collidines, aniline, toluidines, lutidines, xylidines.]						
648-033-00	Tar bases, coal, collidine fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 181 °C to 186 °C (356 °F to 367 °F) from the crude bases	H J	295-543-592062-28	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	obtained from the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of bituminous coal tar. It contains chiefly aniline and collidines.]						
648-034-00	Tar bases, coal, aniline fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 180 °C to 200 °C (356 °F to 392 °F) from the crude bases obtained by dephenolating and debasing the carbolated oil from	H J	295-541-492062-27	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	the distillation of coal tar. It contains chiefly aniline, collidines, lutidines and toluidines.]						
648-035-00	Tar bases, coal, toluidine fraction; Distillate Bases	H J	293-767-8	91082-53	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-036-00	Distillates (petroleum), alkene-alkyne manuf. pyrolysis oil, mixed with high-temp. coal tar, indene fraction; Redistillates; [A complex combination of hydrocarbons obtained as a redistillate from the fractional distillation of bituminous coal high temperature tar and residual oils	H J	295-292-1	91995-31	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	that are obtained by the pyrolytic production of alkenes and alkynes from petroleum products or natural gas. It consists predominantly of indene and boils in a range of approximately 160 °C to 190 °C (320 °F to 374 °F).]						
648-037-00	Distillates H J (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [The redistillate obtained from the fractional distillation of bituminous coal high temperature tar and pyrolysis	295-295-89	1995-35	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	residual oils and boiling in the range of approximately 190 °C to 270 °C (374 °F to 518 °F). Composed primarily of substituted dinuclear aromatics.]						
648-038-00-2	Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oil, redistillate; Redistillates; [The redistillate from the fractional distillation of dephenolated and debased methylnaphthalene oil obtained from bituminous coal high temperature tar and pyrolysis residual oils boiling in the	H J	295-329-1	91995-66	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	



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	approximate range of 220 °C to 230 °C (428 °F to 446 °F). It consists predominantly of unsubstituted and substituted dinuclear aromatic hydrocarbons.]							
648-039-00	Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [A neutral oil obtained by debasing and dephenolating the oil obtained from the distillation of high temperature tar and pyrolysis residual oils which has a boiling range of 225 °C to	H J	310-170-01	22070-79	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	255 °C (437 °F) to 491 °F). Composed primarily of substituted dinuclear aromatic hydrocarbons.]						
648-040-00	Extract oils (coal), coal tar residual pyrolysis oils, naphthalene oil, distn. residues; Redistillates; [Residue from the distillation of dephenolated and debased methylnaphthalene oil (from bituminous coal tar and pyrolysis residual oils) with a boiling range of 240 °C to 260 °C (464 °F to 500 °F). Composed primarily of substituted dinuclear	H J	310-171-6	122070-8	Car. Cat. T 2; R45 Muta. Cat. 2; R46	R: 45-46 S: 53-45	

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	aromatic and heterocyclic hydrocarbons.]						
648-043-00X	Creosote oil, acenaphthene fraction, acenaphthene-free; Wash Oil Redistillate; [The oil remaining after removal by a crystallization process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkylnaphthalenes.]	H M	292-606-990640-85	090640-85	Carc. Cat. 2; R45	T R: 45 S: 53-45	
648-080-00	Residues (coal tar), creosote oil distn.; Wash Oil Redistillate; [The residue from the fractional distillation of wash oil boiling in the approximate range of	H M	295-506-392061-93	092061-93	Carc. Cat. 2; R45	T R: 45 S: 53-45	



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					Muta. Cat. 2; R46	S: 53-45	
648-086-004	Distillates HJM (coal tar), naphthalene oils, naphthalene-low; Naphthalene Oil Redistillate; [A complex combination	284-898-1	84989-09-5	Car. Cat. T 2; R45 Muta. Cat. 2; R46	R: 45-46 S: 53-45		

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	of hydrocarbons obtained by crystallization of naphthalene oil. Composed primarily of naphthalene, alkyl naphthalenes and phenolic compounds.]						
648-087-00 X	Distillates HJM (coal tar), naphthalene oil crystn. mother liquor; Naphthalene Oil Redistillate; [A complex combination of organic compounds obtained as a filtrate from the crystallization of the naphthalene fraction from coal tar and boiling in the range of approximately 200 °C to 230 °C (392 °F	295-310-891995-49			Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	to 446 °F). Contains chiefly naphthalene, thionaphthene and alkylnaphthalenes.]						
648-088-00	Extract residues (coal), naphthalene oil, alk.; Naphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained from the alkali washing of naphthalene oil to remove phenolic compounds (tar acids). It is composed of naphthalene and alkyl naphthalenes.]	HJM	310-166-9	121620-47	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-089-00	Extract residues (coal), naphthalene oil, alk., naphthalene-low; Naphthalene Oil Extract Residue;	HJM	310-167-4	121620-48	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	[A complex combination of hydrocarbons remaining after the removal of naphthalene from alkali-washed naphthalene oil by a crystallization process. It is composed primarily of naphthalene and alkyl naphthalenes.]						
648-090-00	Distillates HJM (coal tar), naphthalene oils, naphthalene-free, alk. exts.; Naphthalene Oil Extract Residue; [The oil remaining after the removal of phenolic compounds (tar acids) from drained naphthalene oil by an alkali wash.	292-612-1	90640-90	Tarc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		



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	Composed primarily of naphthalene and alkyl naphthalenes.]						
648-091-00	Extract residues (coal), naphthalene oil alk., distn. overheads; Naphthalene Oil Extract Residue; [The distillate from alkali-washed naphthalene oil having an approximate distillation range of 180 °C to 220 °C (356 °F to 428 °F). Composed primarily of naphthalene, alkylbenzenes, indene and indan.]	HJM	292-627-3	90641-04	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-092-00	Distillates (coal tar), naphthalene oils, methyl naphthalene fraction;	HJM	309-985-4	101896-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of substituted two ring aromatic hydrocarbons and aromatic nitrogen bases boiling in the range of approximately 225 °C to 255 °C (437 °F to 491 °F).]					
648-093-002	Distillates HJM (coal tar), naphthalene oils, indole-methylnaphthalene fraction; Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole	309-972-3	101794-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	and methylnaphthalene boiling in the range of approximately 235 °C to 255 °C (455 °F to 491 °F).]						
648-094-00	Distillates (coal tar), naphthalene oils, acid exts.; Methylnaphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained by debasing the methylnaphthalene fraction obtained by the distillation of coal tar and boiling in the range of approximately 230 °C to 255 °C (446 °F to 491 °F). Contains chiefly 1(2)-	HJM	295-309-291	1995-48-	Carc. Cat. T 2; R45 Muta. Cat. 2; R46	R: 45-46 S: 53-45	

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	methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.]						
648-095-00	Extract residues (coal), naphthalene oil alk., distn. residues; Methylnaphthalene Oil Extract Residue; [The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220 °C to 300 °C (428 °F to 572 °F). Composed primarily of naphthalene, alkylnaphthalenes and aromatic nitrogen bases.]	HJM	292-628-990641-05	292-628-990641-05	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-096-00	Extract oils (coal), acidic, tar-base free;	HJM	284-901-684989-12	284-901-684989-12	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	Methylnaphthalene Oil Extract Residue; [The extract oil boiling in the range of approximately 220 °C to 265 °C (428 °F to 509 °F) from coal tar alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove tar bases. Composed primarily of alkylnaphthalenes.]					
648-097-004	Distillates HJM (coal tar), benzole fraction, distn. residues; Wash Oil; [A complex combination	310-165-3	121620-4	604	Car. Cat. T 2; R45 Muta. Cat. 2; R46	R: 45-46 S: 53-45

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	of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150 °C to 300 °C (302 °F to 572 °F) or a semi-solid or solid with a melting point up to 70 °C (158 °F). It is composed primarily of naphthalene and alkyl naphthalenes.]							
648-098-00 X	Creosote oil, acenaphthene fraction; Wash Oil; [A complex combination of hydrocarbons produced	H M	292-605-3	90640-84-0	Carc. Cat. 2; R45	T R: 45 S: 53-45		

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	by the distillation of coal tar and boiling in the range of approximately 240 °C to 280 °C (464 °F to 536 °F). Composed primarily of acenaphthene, naphthalene and alkyl naphthalene.]						
648-099-00	Creosote oil; [A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists primarily of aromatic hydrocarbons and may contain appreciable quantities of tar acids and tar bases. It distills at the approximate range of 200 °C	H M	263-047-8	61789-28	Carc. Cat. 2; R45	T R: 45 S: 53-45	

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	to 325 °C (392 °F to 617 °F).]						
648-100-00	Creosote oil, high- boiling distillate; Wash Oil; [The high- boiling distillation fraction obtained from the high temperature carbonization of bituminous coal which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is	H M	274-565-9	70321-79	Car. Cat. 2; R45	T R: 45 S: 53-45	



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	crystal free at approximately 5 °C (41 °F).]						
648-102-00 X	Extract residues (coal), creosote oil acid; Wash Oil Extract Residue; [A complex combination of hydrocarbons from the base-freed fraction from the distillation of coal tar, boiling in the range of approximately 250 °C to 280 °C (482 °F to 536 °F). It consists predominantly of biphenyl and isomeric diphenyl naphthalenes.]	H M	310-189-4122384-77	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-103-00	Anthracene oil, anthracene paste; Anthracene Oil Fraction;	HJM	292-603-290640-81	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	[The anthracene-rich solid obtained by the crystallization and centrifuging of anthracene oil. It is composed primarily of anthracene, carbazole and phenanthrene.]						
648-104-00	Anthracene oil, anthracene-low; Anthracene Oil Fraction; [The oil remaining after the removal, by a crystallization process, of an anthracene-rich solid (anthracene paste) from anthracene oil. It is composed primarily of two, three and four membered aromatic compounds.]	HJM	292-604-890640-82	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-105-00	Residues (coal	HJM	295-505-892061-92	Carc. Cat. 2; R45	T R: 45-46		

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					Muta. Cat. 2; R46	S: 53-45	
648-106-00	Anthracene oil, anthracene paste, anthracene fraction; Anthracene Oil Fraction; [The residue from the fraction distillation of crude anthracene boiling in the approximate range of 340 °C to 400 °C (644 °F to 752 °F). It consists predominantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.]	HJM	295-275-99	1995-15	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	obtained by the crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of 330 °C to 350 °C (626 °F to 662 °F). It contains chiefly anthracene, carbazole and phenanthrene.]					
648-107-00-7	Anthracene oil, anthracene paste, carbazole fraction; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous coal	HJM	295-276-49	1995-16	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45

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	high temperature tar and boiling in the approximate range of 350 °C to 360 °C (662 °F to 680 °F). It contains chiefly anthracene, carbazole and phenanthrene.]						
648-108-00	Anthracene oil, anthracene paste, distn. lights; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of approximately	HJM	295-278-59	1995-17	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	290 °C to 340 °C (554 °F to 644 °F). It contains chiefly trinuclear aromatics and their dihydro derivatives.]						
648-109-00	Tar oils, coal, low-temp.; Tar Oil, high boiling; [A distillate from low-temperature coal tar. Composed primarily of hydrocarbons, phenolic compounds and aromatic nitrogen bases boiling in the range of approximately 160 °C to 340 °C (320 °F to 644 °F).]	HJM	309-889-2101316-87	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-110-00	Extract residues (coal), low temp.	HJM	310-191-5122384-78	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	coal atar alk.; [The residue from low temperature coal tar oils after an alkaline wash, such as aqueous sodium hydroxide, to remove crude coal tar acids. Composed primarily of hydrocarbons and aromatic nitrogen bases.]						
648-111-00	Phenols, ammonia liquor ext.; Alkaline Extract; [The combination of phenols extracted, using isobutyl acetate, from the ammonia liquor condensed from the gas evolved in low-temperature	HJM	284-881-984988-93	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	(less than 700 °C (1 292 °F)) destructive distillation of coal. It consists predominantly of a mixture of monohydric and dihydric phenols.]						
648-112-00	Distillates (coal tar), light oils, alk. exts.; Alkaline Extract; [The aqueous extract from carbolic oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	HJM	292-610-090640-88	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-113-00 X	Extracts, coal tar oil alk.;	HJM	266-017-265996-83	Carc. Cat. 2; R45	T R: 45-46 S: 53-45		



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	Alkaline Extract; [The extract from coal tar oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]				Muta. Cat. 2; R46		
648-114-00	Distillates HJM (coal tar), naphthalene oils, alk. exts.; Alkaline Extract; [The aqueous extract from naphthalene oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various	292-611-6	90640-89	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	phenolic compounds.]						
648-115-00	Extract residues (coal), tar oil alk., carbonated, limed; Crude Phenols; [The product obtained by treatment of coal tar oil alkaline extract with CO <sub>2</sub> and CaO. Composed primarily of CaCO <sub>3</sub> , Ca(OH) <sub>2</sub> , Na <sub>2</sub> CO <sub>3</sub> and other organic and inorganic impurities.]	HJM	292-629-490641-06	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-116-00	Tar acids, coal, crude; Crude Phenols; [The reaction product obtained by neutralizing coal tar oil alkaline extract	HJM	266-019-365996-85	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	with an acidic solution, such as aqueous sulfuric acid, or gaseous carbon dioxide, to obtain the free acids. Composed primarily of tar acids such as phenol, cresols, and xylenols.]						
648-117-00	Tar acids, brown-coal, crude; Crude Phenols; [An acidified alkaline extract of brown coal tar distillate. Composed primarily of phenol and phenol homologs.]	HJM	309-888-7	101316-86	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-118-00	Tar acids, brown-coal gasification; Crude Phenols;	HJM	295-536-7	92062-22	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	[A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C <sub>6-10</sub> hydroxy aromatic phenols and their homologs.]						
648-119-00	Car acids, distn. residues; Distillate Phenols; [A residue from the distillation of crude phenol from coal. It consists predominantly of phenols having carbon numbers in the range of C <sub>8</sub> through C <sub>10</sub> with a softening point of 60 °C to 80 °C (140 °F	HJM	306-251-596690-55	0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	to 176 °F).]						
648-120-008	Tar acids, methylphenol fraction; Distillate Phenols; [The fraction of tar acid rich in 3- and 4- methylphenol, recovered by distillation of low- temperature coal tar crude tar acids.]	HJM	284-892-984989-04	284-892-984989-04	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-121-008	Tar acids, polyalkylphenol fraction; Distillate Phenols; [The fraction of tar acids, recovered by distillation of low- temperature coal tar crude tar acids, having an approximate boiling range of 225 °C to 320 °C (437 °F to 608 °F).]	HJM	284-893-484989-05	284-893-484989-05	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
	Composed						

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	primarily of polyalkylphenols.]						
648-122-00	Tar acids, xylenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 2,4- and 2,5-dimethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	HJM	284-895-5	84989-06	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-123-00	Tar acids, ethylphenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 3- and 4-ethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	HJM	284-891-3	84989-03	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-124-00 X	Tar acids, 3,5-	HJM	284-896-0	84989-07	Carc. Cat. 2; R45	T R: 45-46 S: 53-45	

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	xylenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 3,5-dimethylphenol, recovered by distillation of low-temperature coal tar acids.]				Muta. Cat. 2; R46			
648-125-00	Tar acids, residues, distillates, first-cut; Distillate Phenols; [The residue from the distillation in the range of 235 °C to 355 °C (481 °F to 697 °F) of light carbolic oil.]	HJM	270-713-1	68477-23	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-126-00	Tar acids, cresylic, residues; Distillate Phenols; [The residue from crude coal tar acids	HJM	271-418-0	68555-24	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	after removal of phenol, cresols, xylenols and any higher boiling phenols. A black solid with a melting point approximately 80 °C (176 °F). Composed primarily of polyalkylphenols, resin gums, and inorganic salts.]						
648-127-00	Phenols, C <sub>9-11</sub> ; Distillate Phenols	HJM	293-435-291079-47	0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-128-00	Tar acids, cresylic; Distillate Phenols; [A complex combination of organic compounds obtained from brown coal and boiling in the range of approximately 200 °C	HJM	295-540-992062-26	0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	



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	to 230 °C (392 °F) to 446 °F). It contains chiefly phenols and pyridine bases.]							
648-129-00	Tar acids, brown-coal, C <sub>2</sub> -alkylphenol fraction; Distillate Phenols; [The distillate from the acidification of alkaline washed lignite tar distillate boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). Composed primarily of <i>m</i> - and <i>p</i> -ethylphenol as well as cresols and xylenols.]	HJM	302-662-99	114-29	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-130-00	Extract oils	HJM	292-623-19	0641-00	Carc. Cat. 2; R45	T R: 45-46		

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	(coal), naphthalene oils; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed naphthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]				Muta. Cat. 2; R46	S: 53-45		
648-131-008	Tar bases, quinoline derivs.; Distillate Bases	HJM	271-020-7	68513-87	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-132-008	Tar bases, coal, quinoline derivs. fraction; Distillate Bases	HJM	274-560-1	70321-67	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-133-008	Tar bases, coal, distn. residues; Distillate Bases;	HJM	295-544-0	92062-29	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	[The distillation residue remaining after the distillation of the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of coal tars. It contains chiefly aniline, collidines, quinoline and quinoline derivatives and toluidines.]						
648-134-004	Hydrocarbons, arom., mixed with polyethylene and polypropylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of a polyethylene/polypropylene mixture	HM	309-745-9	100801-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 120 °C (158 °F to 248 °F).]						
648-135-00 X	Hydrocarbons, arom., mixed with polyethylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polyethylene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a	HM	309-748-5	100801-6	508 Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	range of 70 °C to 120 °C (158 °F to 248 °F).]						
648-136-00	Hydrocarbons, oils, arom., mixed with polystyrene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polystyrene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 210 °C (158 °F to 410 °F).]	HJM	309-749-0	100801-66	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
648-137-00	Extract residues (coal), tar oil alk., naphthalene	HJM	277-567-8	73665-18	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	distn. residues; Naphthalene Oil Extract Residue; [The residue obtained from chemical oil extracted after the removal of naphthalene by distillation composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.]						
648-138-00	Excosote oil, low-boiling distillate; Wash Oil; [The low-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal, which is	H M	274-566-4	70321-80	Carc. Cat. 2; R45	T R: 45 S: 53-45	

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	further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillate, removed. It is crystal free at approximately 38 °C (100 °F).]							
648-139-00	Tar acids, cresylic, sodium salts, caustic solns.; Alkaline Extract	HJM	272-361-4	68815-21	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-140-00	Extract oils (coal), tar base; Acid Extract; [The extract from coal tar oil alkaline	HJM	266-020-9	65996-86	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.]						
648-141-002	Tar bases, coal, crude; Crude Tar Bases; [The reaction product obtained by neutralizing coal tar base extract oil with an alkaline solution, such as aqueous	HJM	266-018-865996-84	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		



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	sodium hydroxide, to obtain the free bases. Composed primarily of such organic bases as acridine, phenanthridine, pyridine, quinoline and their alkyl derivatives.]						
648-147-00-15	Light oil (coal), coke-oven; Crude benzole; [The volatile organic liquid extracted from the gas evolved in the high temperature (greater than 700 °C (1 292 °F)) destructive distillation of coal. Composed primarily of benzene, toluene, and xylenes. May contain other	H J	266-012-5	65996-78	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	minor hydrocarbon constituents.]						
648-148-00	Distillates H J (coal), liq. solvent extn., primary; [The liquid product of condensation of vapors emitted during the digestion of coal in a liquid solvent and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of partly hydrogenated condensed-ring aromatic hydrocarbons, aromatic compounds containing nitrogen, oxygen and sulfur, and their alkyl derivatives having	302-688-09	4114-52	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>14</sub> .]						
648-149-006	Distillates H J (coal), solvent extn., hydrocracked; [Distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives		302-689-694	114-53-	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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	and alkanes with carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>14</sub> . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]							
648-150-00	Naphtha (coal), solvent extn., hydrocracked; [Fraction of the distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of	H J	302-690-19	114-54-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	approximately 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C <sub>4</sub> to C <sub>9</sub> . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]					
648-152-002	Distillates H J (coal), solvent extn., hydrocracked middle; [Distillate obtained from the hydrocracking of coal extract or solution	302-692-294114-56		Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	

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produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 300 °C (356 °F to 572 °F. Composed primarily of two- ring aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes having carbon numbers predominantly in the range of C <sub>9</sub> through C <sub>14</sub> . Nitrogen, sulfur and oxygen- containing compounds						
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	are also present.]						
648-153-008	Distillates H J (coal), solvent extn., hydrocracked hydrogenated middle; [Distillate from the hydrogenation of hydrocracked middle distillate from coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 280 °C (356 °F to 536 °F). Composed primarily of hydrogenated two-ring carbon compounds and their alkyl	302-693-894	114-57-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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	derivatives having carbon numbers predominantly in the range of C <sub>9</sub> through C <sub>14</sub> .]						
648-156-00	Light oil (coal), semi-coking process; Fresh oil; [The volatile organic liquid condensed from the gas evolved in the low-temperature (less than 700 °C (1 292 °F)) destructive distillation of coal. Composed primarily of C <sub>6-10</sub> hydrocarbons.]	H J	292-635-790641-11	5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45	
649-062-00	Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C <sub>3</sub> -rich acid-free;	H K	270-755-068477-73	6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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	Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons having carbon numbers in the range of C <sub>2</sub> through C <sub>4</sub> , predominantly C <sub>3</sub> .]						
649-063-00	Gases (petroleum), catalytic cracker; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic	H K	270-756-668477-74	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]							
649-064-00-07	Gases (petroleum), catalytic cracker, C <sub>1</sub> -5-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>6</sub> ,	H K	270-757-1	68477-75-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	predominantly C <sub>1</sub> through C <sub>5</sub> .]						
649-065-00	Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C <sub>2-4</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C <sub>2</sub> through C <sub>6</sub> , predominantly C <sub>2</sub> through C <sub>4</sub> .]	H K	270-758-7	68477-76	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-066-00	Gases (petroleum), catalytic reformer, C <sub>1-4</sub> -rich;	H K	270-760-8	68477-79	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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								Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>6</sub> , predominantly C <sub>1</sub> through C <sub>4</sub> .]
649-067-00	Gases (petroleum), C <sub>3-5</sub> olefinic-paraffinic alkylation feed; Petroleum gas; [A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers	H K	270-765-5	68477-83-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	in the range of C <sub>3</sub> through C <sub>5</sub> which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.]						
649-068-00-00	Gases (petroleum), C <sub>4</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic fractionation process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>5</sub> ,	H K	270-767-668477-85	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	predominantly C <sub>4</sub> .]						
649-069-00	Gases (petroleum), deethanizer overheads; Petroleum gas; [A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.]	H K	270-768-1	68477-86	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-070-00 X	Gases (petroleum), deisobutanizer tower overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene stream. It consists	H K	270-769-7	68477-87	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>4</sub> .]						
649-071-00	Gases (petroleum), depropanizer dry, propene-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.]	H K	270-772-3	68477-90	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-072-00	Gases (petroleum), depropanizer overheads;	H K	270-773-9	68477-91	F+, R12 Carc. Cat. 1; R45	F+, T R: 45-46-12 S: 53-45	

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	Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>4</sub> .]				Muta. Cat. 2; R46		
649-073-00	Gases (petroleum), gas recovery plant depropanizer overheads; Petroleum gas; [A complex combination of hydrocarbons obtained by fractionation of	H K	270-777-06	8477-94	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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								miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>4</sub> , predominantly propane.]
649-074-00	Gases (petroleum), Girbatol unit feed; Petroleum gas; [A complex combination of hydrocarbons that is used as the feed into the Girbatol unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub>	H K	270-778-66	8477-95-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	through C <sub>4</sub> .]						
649-075-00	Gases (petroleum), isomerized naphtha fractionator, C <sub>4</sub> -rich, hydrogen sulfide-free; Petroleum gas	H K	270-782-8	68477-99	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-076-00	Oil gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon	H K	270-802-5	68478-21	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]							
649-077-00	Tall gas (petroleum), catalytic cracked naphtha stabilization absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]	H K	270-803-06	8478-22-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-078-00	Tall gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer	H K	270-804-66	8478-24-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	combined fractionation; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-079-00	Coal gas (petroleum), catalytic reformed naphtha fractionation stabilizer; Petroleum gas; [A complex	H K	270-806-768478-26	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	combination of hydrocarbons obtained from the fractionation stabilization of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]							
649-080-00	all gas (petroleum), saturate gas plant mixed stream, C <sub>4</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed	H K	270-813-5	68478-32	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>6</sub> , predominantly butane and isobutane.]						
649-081-00 X	Tail gas (petroleum), saturate gas recovery plant, C <sub>1-2</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of	H K	270-814-068478-33	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>5</sub> , predominantly methane and ethane.]							
649-082-00	Oil gas (petroleum), vacuum residues thermal cracker; Petroleum gas; [A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	270-815-6	668478-34	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-083-00	Hydrocarbon C <sub>3-4</sub> -rich, petroleum distillate;	H K	270-990-9	68512-91	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	Petroleum gas; [A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>5</sub> , predominantly C <sub>3</sub> through C <sub>4</sub> .]						
649-084-00	Gases (petroleum), full-range straight-run naphtha dehexanizer off; petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-	H K	271-000-868513-15	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		



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	run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>6</sub> .]						
649-085-00	Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich; Petroleum gas; [A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> . It may also	H K	271-001-3	68513-16-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	contain small amounts of hydrogen and hydrogen sulfide.]						
649-086-007	Gases (petroleum), light straight-run naphtha stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>6</sub> .]	H K	271-002-9	68513-17	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-087-008	Residues (petroleum), alkylation splitter, C <sub>4</sub> -rich;	H K	271-010-2	68513-66	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	Petroleum gas; [A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C <sub>4</sub> through C <sub>5</sub> , predominantly butane and boiling in the range of approximately -11.7 °C to 27.8 °C (11 °F to 82 °F).]					
649-088-0018	Hydrocarbons; C <sub>1-4</sub> ; Petroleum gas; [A complex combination of hydrocarbons provided by thermal cracking and absorber operations]	271-032-268	514-31-8	F+; R12 Carc. Cat 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately minus 164 °C to minus 0.5 °C (-263 °F to 31 °F).]						
649-089-0013	Hydrocarbons, C <sub>1-4</sub> , sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities.	271-038-5685	14-36-1	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately -164 °C to -0.5 °C (-263 °F to 31 °F).]						
649-090-0019	Hydrocarbons, C <sub>1-3</sub> ; Petroleum gas; [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> and boiling in the range of approximately minus 164 °C to minus 42 °C (-263 °F to -44 °F).]	271-259-768527-16	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45			

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649-091-00	Hydrocarbons, C <sub>1-4</sub> , deutanizer fraction; Petroleum gas	H K	271-261-8	68527-19	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		
649-092-00 X	Gases (petroleum), C <sub>1-5</sub> , wet; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil and/ or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	271-624-0	68602-83	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		
649-093-00	Hydrocarbons, C <sub>2-4</sub> ; Petroleum gas	H K	271-734-9	68606-25	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		
649-094-00	Hydrocarbons, C <sub>3</sub> ; Petroleum gas	H K	271-735-4	68606-26	F+, R12 Carc. Cat. 1; R45	F+, T R: 45-46-12 S: 53-45		

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					Muta. Cat. 2; R46			
649-095-00	Gases (petroleum), alkylation feed; Petroleum gas; [A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>4</sub> .]	H K	271-737-5	68606-27	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-096-00	Gases (petroleum), depropanizer bottoms fractionation off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It	H K	271-742-2	68606-34	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	consists predominantly of butane, isobutane and butadiene.]						
649-097-00	Gases (petroleum), refinery blend; Petroleum gas; [A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	272-183-7	68783-07	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-098-00	Gases (petroleum), catalytic cracking; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the	H K	272-203-4	68783-64	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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	products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>5</sub> .]						
649-099-008	Gases (petroleum), C <sub>2-4</sub> , sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and	H K	272-205-5	68783-65	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	unsaturated hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>4</sub> and boiling in the range of approximately -51 °C to -34 °C (-60 °F to -30 °F).]							
649-100-00	Gases (petroleum), crude oil fractionation off; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	272-871-7	68918-99-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-101-00	Gases (petroleum), dehexanizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	272-872-2	68919-00	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		
649-102-00	Gases (petroleum), light straight run gasoline fractionation stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation	H K	272-878-5	68919-05	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-103-00	Gases (petroleum), naphtha unrefined desulfurization stripper off; Petroleum gas; [A complex combination of hydrocarbons produced by a naphtha unrefined desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon	H K	272-879-06	8919-06	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]							
649-104-00	Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and propane.]	H K	272-882-7	68919-09-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-105-00	Gases (petroleum), fluidized catalytic cracker splitter overheads; Petroleum gas;	H K	272-893-7	68919-20-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	[A complex combination of hydrocarbons produced by the fractionation of the charge to the C <sub>3</sub> -C <sub>4</sub> splitter. It consists predominantly of C <sub>3</sub> hydrocarbons.]						
649-106-00	Gases (petroleum), straight-run stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers	H K	272-883-2	68919-10-8	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]						
649-107-00 X	Gases (petroleum), catalytic cracked naphtha debutanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]	H K	273-169-3	68952-76	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-108-00	Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer; Petroleum gas; [A complex	H K	273-170-9	68952-77	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]							
649-109-00	Oil gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; petroleum gas; [A complex combination of hydrocarbons obtained from the separation of thermal-cracked distillates, naphtha and gas oil. It	H K	273-175-6	668952-81-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		



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	consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-110-00	Gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of thermal cracked hydrocarbons from petroleum coking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub>	H K	273-176-1	68952-82-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	through C <sub>6</sub> .]						
649-111-00	Gases (petroleum, light steam-cracked, butadiene conc.; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists of hydrocarbons having a carbon number predominantly of C <sub>4</sub> .]	H K	273-265-5	68955-28	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-112-00	Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead; Petroleum gas; [A complex combination of hydrocarbons obtained by the	H K	273-270-2	68955-34	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>4</sub> .]						
649-113-00	Hydrocarbons, C <sub>4</sub> ; Petroleum gas	H K	289-339-5	87741-01	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-114-00	Alkanes, C <sub>1-4</sub> , C <sub>3</sub> -rich; Petroleum gas	H K	292-456-4	90622-55	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-115-00	Gases (petroleum), steam-cracker C <sub>3</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons produced	H K	295-404-9	92045-22	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	by the distillation of products from a steam cracking process. It consists predominantly of propylene with some propane and boils in the range of approximately -70 °C to 0 °C (-94 °F to 32 °F).]						
649-116-00	Hydrocarbons, C <sub>4</sub> , steam-cracker distillate; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons	HNK	295-405-492045-23	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	having a carbon number of C <sub>4</sub> , predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately minus 12 °C to 5 °C (10.4 °F to 41 °F).]							
649-117-00	Petroleum gases, liquefied, sweetened, C <sub>4</sub> fraction; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a liquified petroleum gas mix to a sweetening process to oxidize mercaptans or to remove	HKS	295-463-09	2045-80	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	acidic impurities. It consists predominantly of C <sub>4</sub> saturated and unsaturated hydrocarbons.]						
649-118-00 X	Hydrocarbons, C <sub>4</sub> , 1,3-butadiene- and isobutene-free; Petroleum gas	H K	306-004-1	195465-89-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-119-00	Refinates (petroleum), steam-cracked C <sub>4</sub> fraction cuprous ammonium acetate extn., C <sub>3-5</sub> and C <sub>3-5</sub> unsatd., butadiene-free; Petroleum gas	H K	307-769-4	497722-19-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-120-00	Gases (petroleum), amine system feed; Refinery gas; [The feed gas to the amine system for removal of hydrogen	H K	270-746-1	68477-65-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	sulfide. It consists of hydrogen. Carbon monoxide, carbon dioxide, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> may also be present.]							
649-121-00-6	Gases (petroleum), benzene unit hydrodesulfurizer off; Refinery gas; [Off gases produced by the benzene unit. It consists primarily of hydrogen. Carbon monoxide and hydrocarbons having carbon numbers predominantly in the	H K	270-747-7	68477-66-7	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	range of C <sub>1</sub> through C <sub>6</sub> , including benzene, may also be present.]						
649-122-00	Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>6</sub> .]	H K	270-748-2	268477-67	X <sup>+</sup> ; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F <sup>+</sup> ; T R: 45-46-12 S: 53-45	



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649-123-00	Gases (petroleum), blend oil, hydrogen-nitrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by distillation of a blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide, and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	270-749-8	68477-68	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-124-00	Gases (petroleum), catalytic reformed naphtha	H K	270-759-2	68477-77	F+; R12 Carc. Cat. 1; R45	F+; T R: 45-46-12 S: 53-45		

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	stripper overheads; Refinery gas; [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. Its consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]				Muta. Cat. 2; R46		
649-125-00-8	Gases (petroleum), C <sub>6-8</sub> catalytic reformer recycle; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from catalytic	H K	270-761-3	68477-80-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	reforming of C <sub>6</sub> -C <sub>8</sub> feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]							
649-126-00	Gases (petroleum), C <sub>6-8</sub> catalytic reformer; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products	H K	270-762-9	68477-81	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	from catalytic reforming of C <sub>6</sub> -C <sub>8</sub> feed. It consists of hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>5</sub> and hydrogen.]						
649-127-00	Gases (petroleum), C <sub>6-8</sub> catalytic reformer recycle, hydrogen-rich; Refinery gas	H K	270-763-4	68477-82	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-128-00	Gases (petroleum), C <sub>2</sub> -return stream; Refinery gas; [A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream which consists primarily	H K	270-766-0	68477-84	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.]						
649-129-00 X	Gases (petroleum), dry sour, gas-concn.-unit-off; Refinery gas; [The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen	H K	270-774-468477-92	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	sulfide and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]						
649-130-00	Gases (petroleum), gas concn. reabsorber distn.; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having	H K	270-776-5	68477-93	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	carbon numbers in the range of C <sub>1</sub> through C <sub>3</sub> .]						
649-131-00	Gases (petroleum), hydrogen absorber off; Refinery gas; [A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C <sub>2</sub> hydrocarbons.]	H K	270-779-1	68477-96-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-132-00	Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from	H K	270-780-7	68477-97-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C <sub>2</sub> hydrocarbons.]							
649-133-00	Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon	H K	270-781-2	268477-98	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		



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	dioxide and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-134-00	Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers in the range	H K	270-783-3	68478-00	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	of C <sub>1</sub> through C <sub>5</sub> .]						
649-135-00	Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	270-784-9	68478-01	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-136-00	Gases (petroleum), reforming hydrotreater; Refinery gas; [A complex combination	H K	270-785-4	68478-02	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>5</sub> .]							
649-137-00	Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily	H K	270-787-5	68478-03	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>5</sub> .]						
649-138-00	Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various	H K	270-788-06	8478-04-6	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-139-00	Gases (petroleum), thermal cracking distn.; Refinery gas; [A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly	H K	270-789-6	68478-05	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	in the range of C <sub>1</sub> through C <sub>6</sub> .]							
649-140-00 X	Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas; [A complex combination of hydrocarbons obtained from refractionation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]	H K	270-805-1	68478-25	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-141-00	Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas;	H K	270-807-2	68478-27	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	[A complex combination of hydrocarbons obtained from the catalytic reforming of straight run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-142-00	Coal gas (petroleum), catalytic reformed naphtha stabilizer; Refinery gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha. It consists of hydrogen	H K	270-808-868478-28	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-143-00	Gas (petroleum), cracked distillate hydrotreater separator; Refinery gas; [A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	270-809-3	68478-29	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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649-144-00	Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from hydrodesulfurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]	H K	270-810-9	68478-30-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-145-00	Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas; [A complex combination	H K	270-999-8	68513-14-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.]						
649-146-002	Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas; [A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of	H K	271-003-468513-18	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	hydrogen with various small amounts of methane, ethane, and propane.]						
649-147-00	Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas; [A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	H K	271-005-5	68513-19-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-148-00	Gases (petroleum), oil refinery gas	H K	271-258-1	68527-15-5	F+; R12 Carc. Cat. 1; R45	F+; T R: 45-46-12 S: 53-45	

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<p>distn. off; Refinery gas; [A complex combination separated by distillation of a gas stream containing hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C<sub>1</sub> through C<sub>6</sub> or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>2</sub>, hydrogen, nitrogen, and carbon monoxide.]</p>			<p>Muta. Cat. 2; R46</p>			
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649-149-00	Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range	H K	271-623-5	68602-82	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		
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	of C <sub>1</sub> through C <sub>6</sub> . It may contain trace amounts of benzene.]						
649-150-00	Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas; [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub>	H K	271-625-66	8602-84-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	through C <sub>3</sub> .]						
649-151-00 X	Petroleum products, refinery gases; Refinery gas; [A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	H K	271-750-668607-11	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-152-00	Gases (petroleum), hydrocracking low-pressure separator; Refinery gas; [A complex combination obtained by the liquid-vapor separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and	H K	272-182-168783-06	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]						
649-153-00	Gases (petroleum), refinery; Refinery gas; [A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]	H K	272-338-9	68814-67	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-154-00	Gases (petroleum), platformer products separator off; Refinery gas; [A complex combination	H K	272-343-6	68814-90	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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	obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>4</sub> .]							
649-155-00	Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off; Refinery gas; [The complex combination obtained from the depentanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane,	H K	272-775-5	68911-58-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	and propane with various small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>5</sub> .]						
649-156-00	Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas; [A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily	H K	272-776-06	8911-59	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>5</sub> .]						
649-157-00	Gases (petroleum), distillate unrefined desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the unrefined desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]	H K	272-873-8	68919-01	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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649-158-00	Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas; [A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	272-874-3	68919-02	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-159-00	Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas;	H K	272-875-9	68919-03	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	[A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]						
649-160-00	Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulfurization process. It consists of hydrogen, hydrogen sulfide, and	H K	272-876-4	68919-04-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-161-00	Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas; [A complex combination obtained by the fractionation of the light ends of the platinum reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.]	H K	272-880-6	68919-07	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-162-00 X	Gases (petroleum), preflash tower off, crude distn.; Refinery gas;	H K	272-881-1	68919-08	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	[A complex combination produced from the first tower used in the distillation of crude oil. It consists of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-163-00-05	Gases (petroleum), tar stripper off; Refinery gas; [A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon	H K	272-884-8	68919-11-9	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]						
649-164-00	Gases (petroleum), unrefined; refinery gas; [A combination of hydrogen and methane obtained by fractionation of the products from the unrefined unit.]	H K	272-885-3	68919-12-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-165-00	Gas (petroleum), catalytic hydrodesulfurized naphtha separator; refinery gas; [A complex combination of hydrocarbons obtained from the hydrodesulfurization of naphtha. It consists of hydrogen, methane, ethane,	H K	273-173-5	68952-79-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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	and propane.]							
649-166-00	<p>Flammable gas (petroleum), straight-run naphtha hydrodesulfurizer; Refinery gas; [A complex combination obtained from the hydrodesulfurization of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>5</sub>.]</p>	H K	273-174-06	273-174-06	8952-80-7	<p>F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46</p>	<p>F+; T R: 45-46-12 S: 53-45</p>	
649-167-00	<p>Gases (petroleum), sponge absorber off, fluidized catalytic cracker and gas oil desulfurizer overhead fractionation; Refinery gas; [A complex</p>	H K	273-269-76	273-269-76	8955-33-9	<p>F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46</p>	<p>F+; T R: 45-46-12 S: 53-45</p>	

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	combination obtained by the fractionation of products from the fluidized catalytic cracker and gas oil desulfurizer. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]							
649-168-00	Gases (petroleum), crude distn. and catalytic cracking; Refinery gas; [A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen	H K	273-563-5	68989-88	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45		

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	sulfide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-169-00	Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas; [A complex combination produced by desulfurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C <sub>1</sub>	H K	295-397-29	2045-15-	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	

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	through C <sub>5</sub> .]						
649-170-00	Gases (petroleum), gas oil hydrodesulfurization effluent; Refinery gas; [A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]	H K	295-398-89	2045-16-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-171-00	Gases (petroleum), gas oil hydrodesulfurization purge; Refinery gas; [A complex	H K	295-399-39	2045-17-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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								combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]
649-172-00	Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas; [A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction. It consists predominantly	H K	295-400-792045-18	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45			

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	of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-173-00 X	Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas; [A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products.	H K	295-401-292045-19	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> with which natural gas may also be mixed.]						
649-174-00	Gases (petroleum), residue visbaking off; Refinery gas; [A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulfide and paraffinic and olefinic	H K	295-402-8	92045-20-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]							
649-177-00	Gases (petroleum), C <sub>3-4</sub> ; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>4</sub> , predominantly of propane and propylene, and boiling in the range of approximately -51 °C to -1 °C	H K	268-629-5	68131-75-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		



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	(-60 °F to 30 °F.)]							
649-178-00	Flammable gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas; [The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>4</sub> .]	H K	269-617-2	268307-98	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-179-00	Flammable gas (petroleum), catalytic polymn. naphtha	H K	269-618-8	268307-99	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		





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	It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-182-00-01	Gas (petroleum), straight-run distillate hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight run distillates and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly	H K	269-630-3	68308-10	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]						
649-183-00	Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]	H K	269-623-5	68308-03	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-184-00 X	Tail gas (petroleum), gas	H K	269-624-0	68308-04	F+; R12 Carc. Cat. 1; R45	F+; T R: 45-46-12 S: 53-45	



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	It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .]						
649-186-00	Oil gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of hydrodesulfurized naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having	H K	269-626-1	68308-06	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-187-00-01	Gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulfurized vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly	H K	269-627-7	68308-07-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	



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	in the range of C <sub>1</sub> through C <sub>6</sub> .]						
649-188-00	Oil gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation stabilization of light straight run naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub>	H K	269-629-8	68308-09-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	through C <sub>5</sub> .]						
649-189-00	<p>all gas (petroleum), propane-propylene alkylation feed prep deethanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of the reaction products of propane with propylene. It consists of hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>4</sub>.]</p>	H K	269-631-9	68308-11	<p>F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46</p>	<p>F+; T R: 45-46-12 S: 53-45</p>	
649-190-00	<p>all gas (petroleum), vacuum gas oil hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas;</p>	H K	269-632-4	68308-12	<p>F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46</p>	<p>F+; T R: 45-46-12 S: 53-45</p>	

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	<p>[A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>6</sub>.]</p>							
<p>649-191-00-8</p>	<p>Gases (petroleum), catalytic cracked overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of</p>	<p>H K</p>	<p>270-071-268</p>	<p>409-99-4</p>	<p>F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46</p>	<p>F+; T R: 45-46-12 S: 53-45</p>		

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	products from the catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>5</sub> and boiling in the range of approximately -48 °C to 32 °C (-54 °F to 90 °F).]						
649-193-00	Alkanes, C <sub>1-2</sub> ; Petroleum gas	H K	270-651-5	68475-57	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-194-00	Alkanes, C <sub>2-3</sub> ; Petroleum gas	H K	270-652-0	68475-58	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-195-00 X	Alkanes, C <sub>3-4</sub> ; petroleum gas	H K	270-653-6	68475-59	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45	
649-196-00	Alkanes, C <sub>4-5</sub> ; Petroleum gas	H K	270-654-1	68475-60	F+, R12 Carc. Cat. 1; R45	F+, T R: 45-46-12 S: 53-45	

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					Muta. Cat. 2; R46			
649-197-00	Fuel gases; Petroleum gas; [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]	H K	270-667-2	68476-26	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-198-00	Fuel gases, crude oil of distillates; Petroleum gas; [A complex combination of light gases produced by distillation of crude oil and by catalytic reforming of naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly	H K	270-670-9	68476-29	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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	in the range of C <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately -217 °C to -12 °C (-423 °F to 10 °F).]						
649-199-00	Hydrocarbons, C <sub>3-4</sub> ; Petroleum gas	HKS	270-681-9	68476-40	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-200-00	Hydrocarbons, C <sub>4-5</sub> ; Petroleum gas	HKS	270-682-4	68476-42	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-201-00	Hydrocarbons, C <sub>2-4</sub> , C <sub>3</sub> -rich; Petroleum gas	HKS	270-689-2	68476-49	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-202-00	Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of	HKS	270-704-2	68476-85	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>7</sub> and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).]					
649-203-00	Petroleum gases, liquefied, sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon	HKS	270-705-86	8476-86-8	F+, R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+, T R: 45-46-12 S: 53-45

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	numbers predominantly in the range of C <sub>3</sub> through C <sub>7</sub> and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).]							
649-204-007	Gases (petroleum), C <sub>3-4</sub> , isobutane-rich; Petroleum gas; [A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C <sub>3</sub> through C <sub>6</sub> , predominantly butane and isobutane. It consists of saturated and	H K	270-724-1	68477-33-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		



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	unsaturated hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>4</sub> , predominantly isobutane.]					
649-205-00	D-2 Distillates H K (petroleum), C <sub>3-6</sub> , piperylene-rich; Petroleum gas; [A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C <sub>3</sub> through C <sub>6</sub> . It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C <sub>3</sub>	270-726-2	68477-35	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	through C <sub>6</sub> , predominantly piperlyenes.]						
649-206-00	Gases (petroleum), butane splitter overheads; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of the butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>4</sub> .]	H K	270-750-3	68477-69-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	
649-207-00	Gases (petroleum), C <sub>2-3</sub> ; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products	H K	270-751-9	68477-70-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.]						
649-208-00	Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C <sub>4</sub> -rich acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked gas oil hydrocarbon stream and treated to remove hydrogen sulfide and other acidic components. It consists of hydrocarbons	H K	270-752-4	68477-71-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45	

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	having carbon numbers in the range of C <sub>3</sub> through C <sub>5</sub> , predominantly C <sub>4</sub> .]						
649-209-004	Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C <sub>3-5</sub> -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>5</sub> .]	H K	270-754-568477-72	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-210-00X	Fail gas (petroleum), isomerized naphtha	H K	269-628-268308-08	F+; R12 Carc. Cat. 1; R45	F+; T R: 45-46-12 S: 53-45		



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	consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>8</sub> and boiling in the range of approximately minus 20 °C to 120 °C (-4 °F to 248 °F).]							
649-262-00-3	Naphtha; Low boiling point naphtha; [Refined, partly refined, or unrefined petroleum products produced by the distillation of natural gas. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub>	H P	232-443-280	30-30-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	through C <sub>6</sub> and boiling in the range of approximately 100 °C to 200 °C (212 °F to 392 °F).]						
649-263-00-9	Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractional distillation of petroleum. This fraction boils in a range of approximately 20 °C to 135 °C (58 °F to 275 °F).]	H P	232-453-78032-32-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-264-00-4	Naphtha (petroleum), heavy straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons	H P	265-041-064741-41-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>12</sub> and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]						
649-265-00 X	Naphtha (petroleum), full-range straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers	H P	265-042-664741-42	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 220 °C (-4 °F to 428 °F).]						
649-266-00-5	Naphtha (petroleum), light straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>10</sub> and boiling in the range of approximately	H P	265-046-864741-46	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	-20 °C to 180 °C (-4 °F to 356 °F).]							
649-267-00	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha; [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>10</sub> and boiling in the range of approximately 35 °C to 160 °C (95 °F to 320 °F).]	H P	265-192-2	264742-89-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-268-00	Distillates (petroleum), straight-	H P	270-077-5	68410-05-0	Carc. Cat. 2; R45	T R: 45-46-65	C ≥ 10 %: T; R45-46-65	4

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	run light; Low boiling point naphtha; [A complex combination of hydrocarbons produced by the distillation of crude oil It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>7</sub> and boiling in the range of approximately -88 °C to 99 °C (-127 °F to 210 °F).]				Muta. Cat. 2; R46 Xn; R65	S: 53-45	0,1 % ≤ C < 10 %: T; R45-46	
649-269-00	Gasoline, vapor-recovery; Low boiling point naphtha; [A complex combination of hydrocarbons separated from the gases	H P	271-025-46	8514-15-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	from vapor recovery systems by cooling. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 196 °C(-4 °F to 384 °F).]							
649-270-00	Gasoline, straight-run, topping-plant; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the topping plant by the distillation of crude oil. It boils in the	H P	271-727-06	8606-11	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 ≤ C < 10 %: T; R45-46	4

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	range of approximately 36.1 °C to 193.3 °C (97 °F to 380 °F).]							
649-271-00	Naphtha (petroleum), unsweetened; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the distillation of naphtha streams from various refinery processes It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>12</sub> and boiling in the range of approximately 0 °C to 230 °C (25 °F to 446 °F).]	H P	272-186-3	68783-12	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-272-00	Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads; Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>6</sub> .]	H P	272-931-2	68921-08	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-273-00	Naphtha (petroleum), heavy straight run, arom.-contg.; Low boiling point naphtha;	H P	309-945-6	101631-20	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons obtained from a distillation process of crude petroleum. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>8</sub> through C <sub>12</sub> and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).]						
649-274-00-9	Naphtha (petroleum), full-range alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation	H P	265-066-764741-64	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C <sub>3</sub> through C <sub>5</sub> . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 90 °C to 220 °C (194 °F to 428 °F).]							
649-275-00	Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha; [A complex	H P	265-067-2	64741-65	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C <sub>3</sub> to C <sub>5</sub> . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>9</sub> through C <sub>12</sub> and boiling in the range of approximately 150 °C to 220 °C (302 °F to 428 °F).]						
649-276-00 X	Naphtha (petroleum), light alkylate;	H P	265-068-864741-66	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <	4

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<p>Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C<sub>3</sub> through C<sub>5</sub>. It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C<sub>7</sub> through C<sub>10</sub> and boiling in the range of approximately 90 °C to 160 °C (194 °F</p>			Xn; R65		10 %: T; R45-46
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649-277-00	to 320 °F).]							
649-277-00	Naphtha H P (petroleum), isomerization; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained from catalytic isomerization of straight chain paraffinic C <sub>4</sub> through C <sub>6</sub> hydrocarbons. It consists predominantly of saturated hydrocarbons such as isobutane, isopentane, 2,2- dimethylbutane, 2- methylpentane, and 3- methylpentane.]	H P	265-073-5	64741-70	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-278-00	Naphtha H P (petroleum), solvent- refined light; Low boiling point modified naphtha;	H P	265-086-6	64741-84	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>11</sub> and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F).]							
649-279-00-6	Naphtha (petroleum), solvent-refined heavy; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the	H P	265-095-5	64741-92	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]						
649-280-00	Raffinates H P (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from the	270-088-568410-71	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	UDEX extraction process on the catalytic reformer stream. It consists of saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>9</sub> .]						
649-281-00-7	Raffinates H P (petroleum), reformer, Lurgi unit-sepd.; Low boiling point modified naphtha; [The complex combination of hydrocarbons obtained as a raffinate from a Lurgi separation unit. It consists predominantly of non-aromatic hydrocarbons with various small	270-349-368425-35	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	amounts of aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>8</sub> .]							
649-282-00	Naphtha (petroleum), full-range alkylate, butane-contg.; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by the distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C <sub>3</sub> through C <sub>5</sub> . It consists of predominantly	H P	271-267-06	8527-27-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> with some butanes and boiling in the range of approximately 35 °C to 200 °C (95 °F to 428 °F).]						
649-283-00	Distillates H P (petroleum), naphtha steam cracking-derived, solvent-refined light hydrotreated; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinates from a solvent extraction process of	295-315-59	1995-53	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	hydrotreated light distillate from steam-cracked naphtha.]							
649-284-00	Naphtha H P (petroleum), C <sub>4-12</sub> butane-alkylate, isooctane-rich; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by alkylation of butanes. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>12</sub> , rich in isooctane, and boiling in the range of approximately 35 °C to 210 °C		295-430-09	2045-49	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	(95 °F to 410 °F).]							
649-285-00	Hydrocarbons, hydrotreated light naphtha distillates, solvent-refined; Low boiling point modified naphtha; [A combination of hydrocarbons obtained from the distillation of hydrotreated naphtha followed by a solvent extraction and distillation process. It consists predominantly of saturated hydrocarbons boiling in the range of approximately 94 °C to 99 °C (201 °F to 210 °F).]	H P	295-436-39	2045-55	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-286-00	Naphtha (petroleum), isomerization, C <sub>6</sub> -fraction;	H P	295-440-59	2045-58	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <	4

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	Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by distillation of a gasoline which has been catalytically isomerized. It consists predominantly of hexane isomers boiling in the range of approximately 60 °C to 66 °C (140 °F to 151 °F).]					10 %: T; R45-46	
649-287-00 X	Hydrocarbons, naphtha-cracking, solvent-refined; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by the	HNH,	295-446-892045-64	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	sorption of benzene from a catalytically fully hydrogenated benzene-rich hydrocarbon cut that was distillatively obtained from prehydrogenated cracked naphtha. It consists predominantly of paraffinic and naphthenic hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>7</sub> and boiling in the range of approximately 70 °C to 100 °C (158 °F to 212 °F).]							
649-288-00	Hydrocarbons, C <sub>6</sub> -rich, hydrotreated light naphtha distillates, solvent-refined;	309-871-4	101316-6	7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by distillation of hydrotreated naphtha followed by solvent extraction. It consists predominantly of saturated hydrocarbons and boiling in the range of approximately 65 °C to 70 °C (149 °F to 158 °F).]							
649-289-00	Naphtha (petroleum), heavy catalytic cracked; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons	H P	265-055-7	64741-54	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	produced by a distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>12</sub> and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F). It contains a relatively large proportion of unsaturated hydrocarbons.]						
649-290-00-6	Naphtha (petroleum), light catalytic cracked; Low boiling point cat-cracked naphtha;	H P	265-056-264741-55	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F). It contains a relatively large proportion of unsaturated hydrocarbons.]							
649-291-00	Hydrocarbons, C <sub>3-11</sub> , catalytic cracker distillates; Low boiling	H <sub>22</sub>	270-686-66	8476-46	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	point cat- cracked naphtha; [A complex combination of hydrocarbons produced by the distillations of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>11</sub> and boiling in a range approximately up to 204 °C (400 °F).]						
649-292-00-7	Naphtha (petroleum), catalytic cracked light distd.; Low boiling point cat-cracked naphtha; [A complex	H P	272-185-868783-09-	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .]						
649-293-00	Distillates H P (petroleum), naphtha steam cracking-derived, hydrotreated light arom.; Low boiling point cat-cracked naphtha.; [A complex combination of hydrocarbons obtained by treating a light distillate from steam-	295-311-39	1995-50	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	cracked naphtha. It consists predominantly of aromatic hydrocarbons.]						
649-294-00	Naphtha H P (petroleum), heavy catalytic cracked, sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting a catalytic cracked petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly	295-431-69	2045-50	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	$C \geq 10\%$ ; T; R45-46-65 $0,1\% \leq C < 10\%$ ; T; R45-46	4

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	in the range of C <sub>6</sub> through C <sub>12</sub> and boiling in the range of approximately 60 °C to 200 °C (140 °F to 392 °F).]							
649-295-00	Naphtha (petroleum), light catalytic cracked sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting naphtha from a catalytic cracking process to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly	H P	295-441-09	2045-59	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	of hydrocarbons boiling in a range of approximately 35 °C to 210 °C (95 °F to 410 °F).]						
649-296-00	Hydrocarbons, C <sub>8-12</sub> , catalytic-cracking, chem. neutralized; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of a cut from the catalytic cracking process, having undergone an alkaline washing. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>8</sub> through	295-794-09	2128-94	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	C <sub>12</sub> and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).]						
649-297-00	Hydrocarbons, C <sub>8-12</sub> , catalytic cracker distillates; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by distillation of products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>8</sub> through C <sub>12</sub> and boiling in the	309-974-41	101794-97	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	range of approximately 140 °C to 210 °C (284 °F to 410 °F).]							
649-298-00 X	Hydrocarbons, C <sub>8-12</sub> , catalytic cracking, chem. neutralized, sweetened; Low boiling point cat-cracked naphtha	H B	309-987-5	101896-28	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-299-00	Naphtha (petroleum), light catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon	H P	265-065-1	64741-63	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	numbers predominantly in the range of C <sub>5</sub> through C <sub>11</sub> and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]						
649-300-009	Phtha H P (petroleum), heavy catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced	265-070-964741-68	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	from the distillation of products from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]						
649-301-004	Distillates H P (petroleum), catalytic reformed depentanizer; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons from the distillation of products	270-660-468475-79	6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	from a catalytic reforming process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>6</sub> and boiling in the range of approximately -49 °C to 63 °C (-57 °F to 145 °F).]							
649-302-00 X	Hydrocarbons, C <sub>2-6</sub> , C <sub>6-8</sub> catalytic reformer; Low boiling point cat-reformed naphtha	H P	270-687-1	68476-47	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-303-00	Residues (petroleum), C <sub>6-8</sub> catalytic reformer; Low boiling point cat-reformed naphtha;	H P	270-794-3	68478-15	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex residuum from the catalytic reforming of C <sub>6-8</sub> feed. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>6</sub> .]							
649-304-00	Naphtha (petroleum), light catalytic reformed, arom.-free; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained from distillation of products from a catalytic reforming process. It consists predominantly of hydrocarbons	H P	270-993-5	68513-03	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>8</sub> and boiling in the range of approximately 35 °C to 120 °C (95 °F to 248 °F). It contains a relatively large proportion of branched chain hydrocarbons with the aromatic components removed.]						
649-305-006	Distillates H P (petroleum), catalytic reformed straight-run naphtha overheads; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by the	271-008-1	68513-63	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	approximately 27 °C to 210 °C (80 °F to 410 °F).]						
649-307-007	Naphtha H P (petroleum), full- range reformed; Low boiling point cat- reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>12</sub> and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).]		272-895-868919-37	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <10 %: T; R45-46	4

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649-308-00	Naphtha	H P	273-271-8	68955-35	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
<p>(petroleum), catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C<sub>4</sub> through C<sub>12</sub> and boiling in the range of approximately 30 °C to 220 °C (90 °F to 430 °F). It contains a relatively large proportion of</p>								

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	aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]						
649-309-00	Distillates H P (petroleum), catalytic reformed hydrotreated light, C <sub>8-12</sub> arom. fraction; Low boiling point cat-reformed naphtha; [A complex combination of alkylbenzenes obtained by the catalytic reforming of petroleum naphtha. It consists predominantly of alkylbenzenes having carbon numbers predominantly in the range of C <sub>8</sub>	285-509-885116-58	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	through C <sub>10</sub> and boiling in the range of approximately 160 °C to 180 °C (320 °F to 356 °F).]							
649-310-00	Aromatic hydrocarbons, C <sub>8</sub> , catalytic reforming-derived; Low boiling point cat-reformed naphtha	H P	295-279-09	1995-18	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-311-00	Aromatic hydrocarbons, C <sub>7-12</sub> , C <sub>8</sub> -rich; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of aromatic	H P	297-401-89	3571-75	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> (primarily C <sub>8</sub> ) and can contain nonaromatic hydrocarbons, both boiling in the range of approximately 130 °C to 200 °C (266 °F to 392 °F).]						
649-312-00	Gasoline, H P C <sub>5-11</sub> , high-octane stabilized reformed; Low boiling point cat-reformed naphtha; [A complex high octane combination of hydrocarbons obtained by the catalytic dehydrogenation of a predominantly	297-458-99	3572-29	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	naphthenic naphtha. It consists predominantly of aromatics and non-aromatics having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>11</sub> and boiling in the range of approximately 45 °C to 185 °C (113 °F to 365 °F).]						
649-313-00 X	Hydrocarbons, C <sub>7-12</sub> , C <sub>&gt;9</sub> -arom.-rich, reforming heavy fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing	297-465-793572-35	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 120 °C to 210 °C (248 °F to 380 °F) and C <sub>9</sub> and higher aromatic hydrocarbons.]						
649-314-00	Hydrocarbons, C <sub>5-11</sub> , nonaromatic, reforming light fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation	297-466-29	3572-36	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>11</sub> and boiling in the range of approximately 35 °C to 125 °C (94 °F to 257 °F), benzene and toluene.]						
649-316-00-6	Naphtha (petroleum), light thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of products from a thermal	H P	265-075-664741-74	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>8</sub> and boiling in the range of approximately -10 °C to 130 °C (14 °F to 266 °F).]							
649-317-00	Naphtha (petroleum), heavy thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of the products from a thermal cracking process. It consists	H P	265-085-06	4741-83-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>12</sub> and boiling in the range of approximately 65 °C to 220 °C (148 °F to 428 °F).]						
649-318-007	Distillates H P (petroleum), heavy arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This higher boiling fraction	267-563-467891-79	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	consists predominantly of C <sub>5-7</sub> aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having carbon number predominantly of C <sub>5</sub> . This stream may contain benzene.]						
649-319-00	Distillates H P (petroleum), light arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This lower boiling fraction consists predominantly	267-565-5	67891-80	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	of C <sub>5-7</sub> aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C <sub>5</sub> . This stream may contain benzene.]						
649-320-00	Distillates H P (petroleum), naphtha-raffinate pyrolyzate-derived, gasoline-blending; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons obtained by the pyrolysis fractionation at 816 °C (1 500 °F) of naphtha and raffinate. It consists predominantly	270-344-66	8425-29	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	of hydrocarbons having a carbon number of C <sub>9</sub> and boiling at approximately 204 °C (400 °F).]						
649-321-00	Aromatic H P hydrocarbons, C <sub>6-8</sub> , naphtha-raffinate pyrolyzate-derived; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons obtained by the fractionation pyrolysis at 816 °C (1 500 °F) of naphtha and raffinate. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly	270-658-3	68475-70	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	in the range of C <sub>6</sub> through C <sub>8</sub> , including benzene.]						
649-322-00	Distillates H P (petroleum), thermal cracked naphtha and gas oil; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by distillation of thermally cracked naphtha and/or gas oil. It consists predominantly of olefinic hydrocarbons having a carbon number of C <sub>5</sub> and boiling in the range of approximately 33 °C to 60 °C	271-631-9	68603-00	Car. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	(91 °F to 140 °F).]						
649-323-004	Distillates H P (petroleum), thermal cracked naphtha and gas oil, C <sub>5</sub> -dimer-contg.; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists predominantly of hydrocarbons having a carbon number of C <sub>5</sub> with some dimerized C <sub>5</sub> olefins and boiling in the range of approximately 33 °C to	271-632-468	603-01-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	184 °C (91 °F to 363 °F).]						
649-324-00 X	Distillates H P (petroleum), thermal cracked naphtha and gas oil, extractive; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/ or gas oil.. It consists of paraffinic and olefinic hydrocarbons, predominantly isoamylenes such as 2- methyl-1- butene and 2- methyl-2- butene and boiling in the range of	271-634-5	68603-03	Car. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	approximately 31 °C to 40 °C (88 °F to 104 °F).]						
649-325-005	Distillates H P (petroleum), light thermal cracked, debutanized arom.; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists predominantly of aromatic hydrocarbons, primarily benzene.]	273-266-068	955-29-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <10 %: T; R45-46	4
649-326-006	Naphtha H P (petroleum), light thermal cracked, sweetened; Low boiling point thermally cracked naphtha;	295-447-392	045-65-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons obtained by subjecting a petroleum distillate from the high temperature thermal cracking of heavy oil fractions to a sweetening process to convert mercaptans. It consists predominantly of aromatics, olefins and saturated hydrocarbons boiling in the range of approximately 20 °C to 100 °C (68 °F to 212 °F).]							
649-327-00	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha;	H P	265-150-3	64742-48-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>13</sub> and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]							
649-328-00	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; [A complex combination	H P	265-151-96	4742-49-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately minus 20 °C to 190 °C (-4 °F to 374 °F).]						
649-329-00-7	Naphtha (petroleum), hydrodesulfurized light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained	H P	265-178-664742-73	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]							
649-330-00	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon	H P	265-185-46	42-82	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]						
649-331-008	Distillates H P (petroleum), hydrotreated middle, intermediate boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from a middle distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the	270-092-7	68410-96	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	range of C <sub>5</sub> through C <sub>10</sub> and boiling in the range of approximately 127 °C to 188 °C (262 °F to 370 °F).]							
649-332-00	Distillates H P (petroleum), light distillate hydrotreating process, low-boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the	270-093-268410-97			Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	range of C <sub>6</sub> through C <sub>9</sub> and boiling in the range of approximately 3 °C to 194 °C (37 °F to 382 °F).]						
649-333-00	Distillates H P (petroleum), hydrotreated heavy naphtha, deisohexanizer overheads; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation of the products from a heavy naphtha hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through	270-094-8	68410-98	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	C <sub>6</sub> and boiling in the range of approximately -49 °C to 68 °C (-57 °F to 155 °F).]							
649-334-00	Solvent naphtha (petroleum), light arom., hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>8</sub>	H P	270-988-86	8512-78	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	through C <sub>10</sub> and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).]							
649-335-00 X	Naphtha (petroleum), hydrodesulfurized thermal cracked light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by fractionation of hydrodesulfurized thermal cracker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> to C <sub>11</sub> and boiling in the	H P	285-511-9	85116-60	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	range of approximately 23 °C to 195 °C (73 °F to 383 °F).]							
649-336-00	Naphtha H P (petroleum), hydrotreated light, cycloalkane-contg.; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from the distillation of a petroleum fraction. It consists predominantly of alkanes and cycloalkanes boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]		285-512-485116-61	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	
649-337-00	Naphtha H P (petroleum), heavy steam-cracked, hydrogenated;		295-432-92045-51	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	Low boiling point hydrogen treated naphtha							
649-338-00	Naphtha (petroleum), hydrosulfurized full-range; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrosulfurization process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately 30 °C to 250 °C (86 °F to 482 °F).]	H P	295-433-79	2045-52	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-339-00	Naphtha (petroleum), hydrotreated	H P	295-438-49	2045-57	Carc. Cat. 2; R45	T R: 45-46-65	C ≥ 10 %: T; R45-46-65	4



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<p>light steam-cracked; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction, derived from a pyrolysis process, with hydrogen in the presence of a catalyst. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C<sub>5</sub> through C<sub>11</sub> and boiling in the range of approximately 35 °C to 190 °C</p>			<p>Muta. Cat. 2; R46 Xn; R65</p>	<p>S: 53-45</p>	<p>0,1 % ≤ C &lt; 10 %: T; R45-46</p>
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	(95 °F to 374 °F).]							
649-340-00	Hydrocarbons, C <sub>4-12</sub> , naphtha-cracking, hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation from the product of a naphtha steam cracking process and subsequent catalytic selective hydrogenation of gum formers. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>12</sub> and boiling in the range of approximately	H <sub>11</sub> B	295-443-19	2045-61-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	30 °C to 230 °C (86 °F to 446 °F).]							
649-341-06-1	Solvent naphtha (petroleum), hydrotreated light naphthenic; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of cycloparaffinic hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>7</sub> and boiling in the range of approximately	H P	295-529-99	2062-15-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	73 °C to 85 °C (163 °F to 185 °F).]						
649-342-00	Naphtha (petroleum), light steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons produced from the separation and subsequent hydrogenation of the products of a steam-cracking process to produce ethylene. It consists predominantly of saturated and unsaturated paraffins, cyclic paraffins and cyclic aromatic hydrocarbons having	H P	296-942-793165-55	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>10</sub> and boiling in the range of approximately 50 °C to 200 °C (122 °F to 392 °F). The proportion of benzene hydrocarbons may vary up to 30 wt. % and the stream may also contain small amounts of sulfur and oxygenated compounds.]						
649-343-0013	Hydrocarbons, C <sub>6-11</sub> , hydrotreated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as	297-852-093763-33	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]							
649-344-00	Hydrocarbons, C <sub>9-12</sub> , hydrotreated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]	H, B	297-853-6	693763-34	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-345-00	Standard solvent;	H P	232-489-3	8052-41-3	Carc. Cat. 2; R45	T R: 45-46-65	C ≥ 10 %: T; R45-46-65	4

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	Low boiling point naphtha — unspecified; [A colorless, refined petroleum distillate that is free from rancid or objectionable odors and that boils in a range of approximately 148.8 °C to 204.4 °C. (300 °F to 400 °F).]				Muta. Cat. 2; R46 Xn; R65	S: 53-45	0,1 % ≤ C < 10 %: T; R45-46	
649-346-00 X	Natural gas condensates (petroleum); Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation.	H P	265-047-3	64741-47	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> to C <sub>20</sub> . It is a liquid at atmospheric temperature and pressure.]						
649-347-00-5	Natural gas (petroleum), raw liq. mix; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of	H P	265-048-964741-48	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	saturated aliphatic hydrocarbons having carbon numbers in the range of C <sub>2</sub> through C <sub>8</sub> .]							
649-348-00-00	Naphtha (petroleum), light hydrocracked; Low boiling naphtha — unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>10</sub> , and boiling in the range of approximately -20 °C to	H P	265-071-46	741-69-00	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	180 °C (-4 °F to 356 °F).]							
649-349-00	Naphtha (petroleum), heavy hydrocracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>12</sub> , and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F).]	H P	265-079-8	64741-78	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-350-00	Naphtha (petroleum), sweetened;	H P	265-089-2	64741-87	Carc. Cat. 2; R45	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65	4

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								Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>12</sub> and boiling in the range of approximately -10 °C to 230 °C (14 °F to 446 °F).]				Muta. Cat. 2; R46 Xn; R65		0,1 % ≤ C < 10 %: T; R45-46	
649-351-00-7	Naphtha (petroleum), acid-treated;	H P	265-115-2	64742-15-0	Carc. Cat. 2; R45	T R: 45-46-65 S: 53-45								C ≥ 10 %: T; R45-46-65	4



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	combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>12</sub> and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]						
649-353-00-8	Naphtha (petroleum), chemically neutralized light; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by a treating process	H P	265-123-664742-23	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]							
649-354-00-3	Naphtha (petroleum), catalytic dewaxed; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the catalytic dewaxing of a petroleum fraction. It consists predominantly of hydrocarbons	H P	265-170-264	742-66-	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>12</sub> and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).]							
649-355-00	Naphtha (petroleum), light steam-cracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of the products from a steam cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the	H P	265-187-5	64742-83	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately minus 20 °C to 190 °C (-4 °F to 374 °F). This stream is likely to contain 10 vol. % or more benzene.]							
649-356-06	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the	H P	265-199-06	64742-95	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	range of C <sub>8</sub> through C <sub>10</sub> and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).]							
649-357-00 X	Aromatic hydrocarbons, C <sub>6-10</sub> , acid-treated, neutralized; Low boiling point naphtha — unspecified	H P	268-618-5	68131-49	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-358-00	Distillates (petroleum), C <sub>3-5</sub> , 2-methyl-2-butene-rich; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons from the distillation of hydrocarbons usually ranging in carbon numbers from C <sub>3</sub>	H P	270-725-7	68477-34	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	through C <sub>5</sub> , predominantly isopentane and 3-methyl-1-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>5</sub> , predominantly 2-methyl-2-butene.]						
649-359-00	Distillates H P (petroleum), polymd. steam-cracked petroleum distillates, C <sub>5-12</sub> fraction; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked	270-735-1	68477-50	Car. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>12</sub> .]						
649-360-006	Distillates H P (petroleum), steam-cracked, C <sub>5-12</sub> fraction; Low boiling point naphtha — unspecified; [A complex combination of organic compounds obtained by the distillation of products from a steam cracking process. It consists of unsaturated hydrocarbons having carbon numbers predominantly in the	270-736-768	477-53-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-361-00	range of C <sub>5</sub> through C <sub>12</sub> .]							
649-361-00	Distillates (petroleum), steam-cracked, C <sub>5-10</sub> fraction, mixed with light steam-cracked petroleum naphtha C <sub>5</sub> fraction; Low boiling point naphtha — unspecified	H P	270-738-8	68477-55	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-362-00	Extracts (petroleum), cold-acid, C <sub>4-6</sub> ; Low boiling point naphtha — unspecified; [A complex combination of organic compounds produced by cold acid unit extraction of saturated and unsaturated aliphatic hydrocarbons usually	H P	270-741-4	68477-61	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	ranging in carbon numbers from C <sub>3</sub> through C <sub>6</sub> , predominantly pentanes and amylenes. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C <sub>4</sub> through C <sub>6</sub> , predominantly C <sub>5</sub> .]						
649-363-00	Distillates H P (petroleum), depentanizer overheads; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from a catalytic cracked gas stream. It consists of	270-771-8	68477-89	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>6</sub> .]							
649-364-00	Residues (petroleum), butane splitter bottoms; Low boiling point naphtha — unspecified; [A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>6</sub> .]	H P	270-791-7	68478-12	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-365-00	Residual oils (petroleum), deisobutanizer tower; Low boiling point	H P	270-795-9	68478-16	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	naphtha — unspecified; [A complex residuum from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>6</sub> .]						
649-366-00	Naphtha (petroleum), full-range coker; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a fluid coker. It consists predominantly of	H P	270-991-468513-02	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	unsaturated hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>15</sub> and boiling in the range of approximately 43 °C to 250 °C (110 °F-500 °F).]						
649-367-00	Naphtha H P (petroleum), steam-cracked middle arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers	271-138-9	68516-20	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 130 °C to 220 °C (266 °F to 428 °F).]							
649-368-00 X	Naphtha (petroleum), clay-treated full-range straight-run; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons resulting from treatment of full-range straight-run naphtha with natural or modified clay, usually in a percolation process to	H P	271-262-3	68527-21-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>11</sub> and boiling in the range of approximately -20 °C to 220 °C (-4 °F to 429 °F).]						
649-369-00-5	Naphtha H P (petroleum), clay-treated light straight-run; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons resulting from treatment of light straight-	271-263-96	8527-22	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	run naphtha with a natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>10</sub> and boiling in the range of approximately 93 °C to 180 °C (200 °F to 356 °F).]						
649-370-00-0	Naphtha (petroleum), light steam-cracked arom.; Low boiling point	H P	271-264-468527-23	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	naphtha — unspecified; [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>9</sub> and boiling in the range of approximately 110 °C to 165 °C (230 °F to 329 °F).]							
649-371-00	Naphtha (petroleum), light steam-cracked, debenzenized; Low boiling point naphtha — unspecified;	H P	271-266-5	68527-26-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	[A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>12</sub> and boiling in the range of approximately 80 °C to 218 °C (176 °F to 424 °F).]							
649-372-00	Naphtha (petroleum), arom.-contg.; Low boiling point naphtha — unspecified	H P	271-635-06	68603-08	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-373-00	Gasoline, pyrolysis, debutanizer bottoms; Low boiling point	H P	271-726-56	68606-10	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	naphtha — unspecified; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C <sub>5</sub> .]						
649-374-00	Naphtha H P (petroleum), light, sweetened; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic	272-206-06	8783-66	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> through C <sub>6</sub> and boiling in the range of approximately -20 °C to 100 °C (-4 °F to 212 °F).]							
649-375-00	Natural gas condensates; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated and/or condensed from natural gas during transportation and collected at the wellhead	H J	272-896-3	68919-39	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	and/or from the production, gathering, transmission, and distribution pipelines in deeps, scrubbers, etc. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>8</sub> .]						
649-376-00	Distillates H P (petroleum), naphtha unifier stripper; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by stripping the products from the naphtha unifier. It consists of saturated aliphatic	272-932-8	68921-09	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4



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	hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>6</sub> .]							
649-377-00	Naphtha (petroleum), catalytic reformed light, arom.-free fraction; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons remaining after removal of aromatic compounds from catalytic reformed light naphtha in a selective absorption process. It consists predominantly of paraffinic and cyclic compounds having	H P	285-510-3	385116-59	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	carbon numbers predominantly in the range of C <sub>5</sub> to C <sub>8</sub> and boiling in the range of approximately 66 °C to 121 °C (151 °F to 250 °F).]							
649-378-00	Gasoline; H P Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C <sub>3</sub> and boiling in the range of 30 °C to 260 °C (86 °F to 500 °F).]		289-220-88	290-81-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-379-00 X	Aromatic hydrocarbons, C <sub>7-8</sub> , dealkylation products, distn. residues; Low boiling point naphtha — unspecified	H P	292-698-09	090989-42	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-380-00	Hydrocarbons, C <sub>4-6</sub> , depentanizer lights, arom. hydrotreater; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained as first runnings from the depentanizer column before hydrotreatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through	H P	295-298-49	1995-38	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	C <sub>6</sub> , predominantly pentanes and pentenes, and boiling in the range of approximately 25 °C to 40 °C (77 °F to 104 °F).]						
649-381-00	Distillates H P (petroleum), heat- soaked steam- cracked naphtha, C <sub>5</sub> -rich; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of heat- soaked steam- cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>4</sub> through	295-302-49	1995-41	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	C <sub>6</sub> , predominantly C <sub>5</sub> .]							
649-382-00	Extracts (petroleum), catalytic reformed light naphtha solvent; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained as the extract from the solvent extraction of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>8</sub> and boiling in the range of approximately 100 °C to 200 °C	H P	295-331-29	1995-68	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	(212 °F to 392 °F).]							
649-383-00	Naphtha (petroleum), hydrodesulfurized light, dearomatized; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of hydrodesulfurized and dearomatized light petroleum fractions. It consists predominantly of C <sub>7</sub> paraffins and cycloparaffins boiling in a range of approximately 90 °C to 100 °C (194 °F to 212 °F).]	H P	295-434-29	2045-53-0	Car. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-384-00	Naphtha (petroleum), light, C <sub>5</sub> -rich, sweetened; Low boiling point	H P	295-442-69	2045-60-0	Car. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	naphtha + unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>5</sub> , predominantly C <sub>5</sub> , and boiling in the range of approximately minus 10 °C to 35 °C (14 °F to 95 °F).]						
649-385-00	Hydrocarbons, C <sub>8-11</sub> , naphtha-cracking,	295-444-79	2045-62	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <	4

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	toluene cut; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation from prehydrogenated cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>8</sub> through C <sub>11</sub> and boiling in the range of approximately 130 °C to 205 °C (266 °F to 401 °F).]			Xn; R65		10 %: T; R45-46	
649-386-00	Hydrocarbons, C <sub>4-11</sub> , naphtha-cracking, arom.-free; Low boiling point	295-445-29	2045-63	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4





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	steam-cracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the fractionation of steam cracked naphtha after recovery from a heat soaking process. It consists predominantly of hydrocarbons having a carbon number predominantly in the range of C <sub>4</sub> through C <sub>6</sub> and boiling in the range of approximately 0 °C to 80 °C (32 °F to 176 °F).]			Xn; R65		10 %: T; R45-46	
649-388-00	Distillates H P (petroleum), C <sub>6</sub> -rich; Low boiling point	296-903-493	165-19	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C <	4

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	naphtha + unspecified; [A complex combination of hydrocarbons obtained from the distillation of a petroleum feedstock. It consists predominantly of hydrocarbons having carbon numbers of C <sub>5</sub> through C <sub>7</sub> , rich in C <sub>6</sub> , and boiling in the range of approximately 60 °C to 70 °C (140 °F to 158 °F).]					10 %: T; R45-46	
649-389-004	Gasoline, H P pyrolysis, hydrogenated; Low boiling point naphtha-unspecified; [A distillation fraction from the hydrogenation of pyrolysis gasoline boiling	302-639-394114-03	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46		4

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	in the range of approximately 20 °C to 200 °C (68 °F to 392 °F).]						
649-390-00 X	Distillates H P (petroleum), steam-cracked, C <sub>8-12</sub> fraction, polymd., distn. lights; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of the polymerized C <sub>8</sub> through C <sub>12</sub> fraction from steam-cracked petroleum distillates. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range	305-750-595009-23	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	of C <sub>8</sub> through C <sub>12</sub> .]						
649-391-00-5	Extracts (petroleum) heavy naphtha solvent, clay-treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment of heavy naphthic solvent petroleum extract with bleaching earth. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>6</sub> through C <sub>10</sub> and boiling in the range of approximately 80 °C to 180 °C (175 °F	H P	308-261-597926-43	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	to 356 °F).]							
649-392-00	Naphtha (petroleum), light steam-cracked, debenzenized, thermally treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of debenzenized light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>7</sub> through C <sub>12</sub> and boiling in the range of approximately 95 °C to 200 °C	H P	308-713-1	98219-46-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	(203 °F to 392 °F).]						
649-393-006	Naphtha (petroleum), light steam-cracked, thermally treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>6</sub> and boiling in the range of approximately 35 °C to 80 °C (95 °F to 176 °F).]	H P	308-714-798219-47	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-394-00	<p>Distillates H P (petroleum), C<sub>7-9</sub>, C<sub>8</sub>-rich, hydrodesulfurized dearomatized; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of petroleum light fraction, hydrodesulfurized and dearomatized. It consists predominantly of hydrocarbons having carbon numbers in the range of C<sub>7</sub> through C<sub>9</sub>, predominantly C<sub>8</sub> paraffins and cycloparaffins, boiling in the range of approximately 120 °C to 130 °C (248 °F</p>	309-862-5	101316-5	<p>Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65</p>	<p>T R: 45-46-65 S: 53-45</p>	<p>C ≥ 10 %: T; R45-46-65 0,1 % ≤ C &lt; 10 %: T; R45-46</p>	4
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649-395-00	<p>to 266 °F).]</p> <p>Hydrocarbons, C<sub>6-8</sub>, hydrogenated sorption-dearomatized, toluene raffination; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained during the sorptions of toluene from a hydrocarbon fraction from cracked gasoline treated with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C<sub>6</sub> through C<sub>8</sub> and</p>	309-870-91	101316-66	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
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	boiling in the range of approximately 80 °C to 135 °C (176 °F to 275 °F).]							
649-396-00	Naphtha (petroleum), hydrodesulfurised full-range coker; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurised coker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> to C <sub>11</sub> and boiling in the range of approximately 23 °C to 196 °C	H P	309-879-8	101316-7	Clarc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	(73 °F to 385 °F).]						
649-397-00	Naphtha H P (petroleum), sweetened light; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C <sub>5</sub> through C <sub>8</sub> and boiling in the range of approximately 20 °C to 130 °C	309-976-5	101795-0	Cl. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-398-00	(68 °F to 266 °F).] Hydrocarbons, C <sub>3-6</sub> , C <sub>5</sub> -rich, steam-cracked naphtha; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>6</sub> , predominantly C <sub>5</sub> .]	HB,	310-012-01	102110-14	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-399-00	Hydrocarbons, C <sub>5</sub> -rich, dicyclopentadiene-contg.; Low boiling point naphtha — unspecified; [A complex	HB,	310-013-61	102110-15	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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	combination of hydrocarbons obtained by distillation of the products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers of C <sub>5</sub> and dicyclopentadiene and boiling in the range of approximately 30 °C to 170 °C (86 °F to 338 °F).]						
649-400-00	Residues H P (petroleum), steam-cracked light, arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of the	310-057-6102110-55	Clc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4	

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	products of steam cracking or similar processes after taking off the very light products resulting in a residue starting with hydrocarbons having carbon numbers greater than C <sub>5</sub> . It consists predominantly of aromatic hydrocarbons having carbon numbers greater than C <sub>5</sub> and boiling above approximately 40 °C (104 °F).]						
649-401-00-8	Hydrocarbons, C <sub>≥5</sub> , C <sub>5-6</sub> -rich; Low boiling point naphtha — unspecified	270-690-8	68476-50-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-402-00	Aromatic hydrocarbons, C <sub>5</sub> -rich; Low boiling point naphtha — unspecified	H P	270-695-5	68476-55	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-403-00	Aromatic hydrocarbons, C <sub>8-10</sub> ; Low boiling point naphtha — unspecified	H P	292-695-4	90989-39	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4 <sup>7</sup>

## ANNEX 1G

Index No	Chemical name	Notes related to substances	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes related to preparations
005-007-00	Boric acid; [1] boric acid, crude natural, containing not more than 85 per cent of H <sub>3</sub> BO <sub>3</sub> calculated on the dry weight [2]		233-139-2 [1] 234-343-4 [2]	210043-35 [1] 11113-50 [2]	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 5,5 %: T; R60-61	
005-008-00	Boron trioxide; boric oxide		215-125-8	1303-86-2	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 3,1 %: T; R60-61	
005-011-00	Sodium tetraborate, anhydrous; boric acid,		215-540-4 [1] 235-541-3 [2]	1330-43-4 [1] 12267-73 [2]	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 4,5 %: T; R60-61	

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	disodium salt; [1] tetraboron disodium heptaoxide, hydrate; [2] orthoboric acid, sodium salt [3]	237-560-2 [3]	13840-56-7 [3]				
005-011-001	disodium tetraborate decahydrate; borax decahydrate	215-540-4	1303-96-4	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 8,5 %: T; R60-61	
005-011-002	disodium tetraborate pentahydrate; borax pentahydrate	215-540-4	12179-04-5	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 6,5 %: T; R60-61	
005-015-006	chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)	414-380-4	140681-55-5	Xn; R22 Xi; R41 R43 R52-53	Xn R: 22-41-43-52/53 S: (2-)21-26-36/37/39-61		
005-016-001	tetrabutylammonium butyl tris-(4-trans-butylphenyl)borate	431-370-5	—	R53	R: 53 S: 61		
006-091-003	propylenebis(dithiocarbamate)	—	9016-72-2	Xn; R20-48/20 R43 N; R50	Xn; N R: 20-43-48/20/22-50 S: (1/2-)24-37-46-61		
006-092-009	trans-butyl (1S)-N-[1-((2S)-2-oxiranyl)-2-phenylethyl]carbamate	425-420-5	98737-29-2	N; R50-53	N R: 50/53 S: 60-61		
006-093-002	di(ethylammonium)-bis(dibenzylthiocarbamate)	427-180-7	—	Xn; R22 R43 N; R50-53	Xn; N R: 22-43-50/53 S: (2-)15-22-29-36/37-60-61		



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006-094-00-X	00- isobutyl- <i>N</i> - ethoxy carbonylthiocarbamate	E	434-350-4	1103122-6	6R10 Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R22-48/22 R43 N; R51-53	T; N R: 45-46-10-22-43-48/22-51/53 S: 53-45-61		
006-095-00	00-ethyl- aluminium (ISO); aluminium triethyl triphosphonate		254-320-2	39148-24	Xi; R41	Xi R: 41 S: (2-)26-39-46		
006-096-00	00-Isopropyl- (ISO); isopropyl 3- chlorocarbanilate		202-925-7	1101-21-3	Carc. Cat. 3; R40 Xn; R48/22 N; R51-53	Xn; N R: 40-48/22-51/53 S: (2-)36/37-61		
007-028-00	00-2-Di- hydroxylammonium nitrate		236-691-2	13465-08	E; R2 Carc. Cat. 3; R40 T; R24 Xn; R22-48/22 Xi; R36/38 R43 N; R50	E; T; N R: 2-22-24-36/38-40-43-48/22-50 S: (1/2-)26-36/37-45-61		
013-010-00	00-5- hydroxy aluminium bis(2,4,8,10- tetra- <i>trans</i> - butyl-6- hydroxy-12 <i>H</i> - dibenzo[ <i>d</i> , <i>g</i> ] [1.3.2]dioxaphosphocin-6- oxide)		430-650-4	151841-6	Xi; R51-53	N R: 51/53 S: 61		
014-033-00	00-3- methyl-3- (trimethoxysilyl)propyl-2- propenoate hydrolysis product		419-030-4	125804-20	F; R11 Xi; R36 R67	F; Xi R: 11-36-67 S: (2-)16-26		

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	with silica						
014-034-00-9	hexylheptamethyltrisiloxane	428-700-5	1873-90-1	Xn; R20 R53	Xn R: 20-53 S: (2-)61		
014-035-00-43,4-	epoxycyclohexyl)ethyltriethoxy silane	425-050-4	10217-34-1	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
015-113-00-0	clofos-methyl (ISO); O-(2,6-dichloro- <i>p</i> -tolyl)-O,O-dimethyl thiophosphate	260-515-3	57018-04-1	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
015-182-00-7	isopropyl dichloromethylphosphonate	420-630-5	10596-03-1	Xn; R22 Xi; R36 R43	Xn R: 22-36-43 S: (2-)24-26-37		
015-183-00-12	hydroxydodecylidene)diphosphonic acid	425-230-2	16610-63-2	C; R34 N; R50-53	C; N R: 34-50/53 S: (1/2-)26-36/37/39-45-60-61		
015-188-00-1-X	methylethylidene)di-4,1-phenylenetetraphenyl diphosphate	425-220-8	5945-33-5	R53	R: 53 S: 61		
016-092-00-0	mixture of: 4,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol-; 4,8-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol; 5,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol	427-050-1	—	Repr. Cat. 3; R62 Xi; R38 R43 N; R50-53	Xn; N R: 38-43-62-50/53 S: (2-)36/37-60-61		
017-023-00-7	phosphinyldynetris(tris[3-	425-520-9	197179-6	Xn; R41	Xi; N		

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	aminopropyl-2-hydroxy- <i>N,N</i> -dimethyl- <i>N</i> -(C <sub>6-18</sub> )-alkyl] trichlorides			N; R50-53	R: 41-50/53 S: (2-)26-39-60-61		
024-021-00 X	Potassium tetrasodium bis[( <i>N,N'</i> -n)-1'-(phenylcarbamoyl)-3,5-disulfonatobenzeneazo-1'-prop-1'-ene-2,2'-diolato]chromate(III)	425-830-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
026-003-00 07	Iron (II) sulfate	231-753-5	7720-78-7	Xn; R22 Xi; R36/38	Xn R: 22-36/38 S: (2-)46		
026-003-00 16	Iron (II) sulfate (1:1) heptahydrate; sulfuric acid, iron(II) salt (1:1), heptahydrate; ferrous sulfate heptahydrate	231-753-5	7782-63-0	Xn; R22 Xi; R36/38	Xn R: 22-36/38 S: (2-)46	C ≥ 25 %: Xn; R22-36/38 20 % ≤ C < 25 %: Xi; R36	
026-004-00 02	Potassium ferrite	430-010-4	12160-44-0	C; R34 R43	C R: 34-43 S: (1/2-)22-26-36/37/39-40-45		
027-006-00 06	Salt acetate	200-755-8	71-48-7	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61 < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C <	1	

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						0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	
027-007-0011	Complex of hexacyanocobaltate(III), tertiary butyl alcohol/ polypropylene glycol complex	425-240-7	—	Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)22-26-39-61		
027-008-0007	Complex of cobalt(III)- bis(N- phenyl-4- (5- ethylsulfonyl-2- hydroxyphenylazo)-3- hydroxynaphthylamide), hydrated (n H <sub>2</sub> O, 2<n<3)	427-390-9	—	R43	Xi R: 43 S: (2-)24-37		
027-009-0002	Cobalt nitrate	233-402-1	10141-05	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61	C ≥ 2,5 %: R49-60-42/43-68-50/53 0,1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C <	1

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						0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	
027-010-008	Salt carbonate		208-169-4513-79-1	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61	C ≥ 2,5 %: R49-60-42/43-68-50/53 0,1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	1
028-011-006	Nickel dichloride	E	231-743-07718-54-9	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R23/25-48/23 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-23/25-38-42/43-48/23-68-50/53 S: 53-45-60-60	C ≥ 25 %: R49-61-23/25-38-42/43-48/23-68-50/53 20 % ≤ C < 25 %: T, N; R49-61-20/22-38-42/43-48/23-68-51/53 3 % ≤ C < 20 %: T, N; R49-61-20/22-42/43-48/23-68-51/53 2,5 % ≤ C < 3 %: T, N; R49-61-42/43-48/23-68-51/53 1 % ≤ C < 2,5 %:	

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							T; R49-61-42/43-48/23-68-52/53 0,5 % ≤ C < 1 %: T; R49-61-43-48/20-52/53 0,25 % ≤ C < 0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43
028-012-00	Nickel dinitrate; [1] nitric acid, nickel salt [2]	E	236-068-5 [1] 238-076-4 [2]	13138-45 [1] 14216-75 [2]	O; R8 Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38-41 R42/43 N; R50-53	O; T; N R: 49-61-8-20/22-38-41-42/43-48/23-68-50/53 S: 53-45-60-20 %	C ≥ 25 %: R49-61-8-20/22-38-41-42/43-48/23-68-50/53 20 % ≤ C < 25 %: T, N; R49-61-38-41-42/43-48/23-68-51/53 10 % ≤ C < 20 %: T, N; R49-61-41-42/43-48/23-68-51/53 5 % ≤ C < 10 %: T, N; R49-61-36-42/43-48/23-68-51/53 2,5 % ≤ C < 5 %: T, N; R49-61-42/43-48/23-68-51/53 1 % ≤ C < 2,5 %: T; R49-61-42/43-48/23-68-52/53 0,5 % ≤ C < 1 %: T; R49-61-43-48/20-52/53 0,25 % ≤ C <

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						0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43	
030-009-0015-	bis(4-(n-octyloxycarbonylamino)salicylate) dihydrate	417-130-2	—	Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)26-39-61		
030-010-0020-	dodec-1-enylbutanedioic acid, 4-methyl ester zinc salt	430-740-3	—	N; R51-53	N R: 51/53 S: 61		
040-003-0024-	Reaction product of 3,5-di-trans-butylsalicylic acid and zirconium oxychloride, dehydrated, basic Zr: DTBS = 1.0: 1.0 to 1.0: 1.5	430-610-6	226996-196	N; R50-53	N R: 50/53 S: 60-61		
046-001-0016-X	tetraammine palladium (II) hydrogen carbonate	425-270-0	134620-00	Xn; R22-48/22 Xi; R41 R43 N; R50-53	Xn; N R: 22-41-43-48/22-50/53 S: (2-)22-26-36/37/39-60-61		
047-002-0028-	orthophosphoric acid, copper, sodium, magnesium, calcium,	416-850-4	—	N; R50-53	N R: 50/53 S: 60-61		

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	silver and zinc salt							
050-021-00	dichlorodioctyl stannane		222-583-23542-36-7	T; R23-48/25 R53	T R: 23-48/25-53 S: (1/2-)38-45-61			
050-022-00 X	tributyltin E dichloride; (DBTC)		211-670-0683-18-1	Mut. Cat. 3; R68 Repr. Cat. 2; R60-61 T+; R26 T; R25-48/25 C; R34 Xn; R21 N; R50-53	T+; C; N R: 60-61-21-25-60-61-42-48-25-26-33-40-43 S: 53-45-60-61 C < 25 %: T +, C, N; R60-61-22-26-34-48/25-68-50/53 7 % ≤ C < 10 %: T+, N; R60-61-22-26-36/38-48/22-68-50/53 3 % ≤ C < 7 %: T, N; R60-61-22-23-36/38-48/22-68-50/53 2,5 % ≤ C < 3 %: T, N; R60-61-23-36/38-48/22-68-50/53 1 % ≤ C < 2,5 %: T, N; R60-61-23-36/38-48/22-68-51/53 0,5 % ≤ C < 1 %: T, N; R60-61-20-36/38-51/53 0,25 % ≤ C < 0,5 %: Xn, N; R20-36/38-51/53 0,1 % ≤ C < 0,25 %: Xn; R20-36/38-52/53 0,025 % ≤ C < 0,1 %: Xi; R36/38-52/53			



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						0,01 % ≤ C < 0,025 %: Xi; R36/38	
078-010-00 X	00 tetraamine platinum (II) hydrogen carbonate	426-730-3	123439-8	22 Xi; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
601-070-00 A	00 mixture of: branched icosane; branched docosane; branched tetracosane	417-050-8	151006-5	22 Xi; R20 R53	Xn R: 20-53 S: (2-)61		
601-072-00 A	01 mixture of: 1-(4- isopropylphenyl)-1- phenylethane; 1-(3- isopropylphenyl)-1- phenylethane; 1-(2- isopropylphenyl)-1- phenylethane	430-690-2	252783-21	22 Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		
601-075-00 A	03 bis(N- carbamoyl-4- methylbenzenesulfonamide)diphenylmethane	418-770-5	151882-8	09 Carc. Cat. 3; R40	Xn R: 40 S: (2-)22-36/37		
601-076-00 B	00 Brynyl cyclopropane	425-430-1	6746-94-7	07 F; R11 R4 Xi; R38-41 R52-53	F; Xi R: 4-11-38-41-52/53 S: (2-)9-16-26-33-37/39-61		
601-077-00 A	09 mixture of: 1- heptyl-4- ethyl-2,6,7- trioxabicyclo[2.2.2]octane; 1- nonyl-4- ethyl-2,6,7- trioxabicyclo[2.2.2]octane	426-510-7	196965-9	10 N R50-53	N R: 50/53 S: 60-61		

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601-078-00-4	mixture of: 1,7-dimethyl-2-[(3-methylbicyclo[2.2.1]hept-2-yl)methyl]bicyclo[2.2.1]heptane; 2,3-dimethyl-2-[(3-methylbicyclo[2.2.1]hept-2-yl)methyl]bicyclo[2.2.1]heptane	427-040-5	—	C; R34 N; R50-53	C; N R: 34-50/53 S: (1/2-)23-26-36/37/39-45-57-60-61		
601-079-00-X	mixture of: <i>trans-trans</i> -cyclohexadeca-1,9-diene; <i>cis-trans</i> -cyclohexadeca-1,9-diene	429-620-3	—	Xi; R38 R43 R53	Xi R: 38-43-53 S: (2-)24-37-61		
602-095-00-X	alkanes, C <sub>14-17</sub> , chloro; chlorinated paraffins, C <sub>14-17</sub>	287-477-08	5535-85	R64 R66 N; R50-53	N R: 64-66-50/53 S: (2-)24-60-61		
602-098-00-63	(3-bromophenoxy)tetrahydro-2H-pyran	429-030-65	7999-49	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
602-099-00-14	(4-fluorophenyl)-2-methylpropionylchloride	426-370-7	—	R14 R29 C; R35 Xn; R22 R52-53	C R: 14-22-29-35-52/53 S: (1/2-)26-36/37/39-45-61		
602-100-00-5	mixture of: (R,R)-1,1,1,2,2,3,4,5,5,5-decafluoropentane; (S,S)-1,1,1,2,2,3,4,5,5,5-decafluoropentane	420-640-8	—	R52-53	R: 52/53 S: 61		
602-101-00-0	chloro-4-fluoro-5-nitrophenyl (isobutyl)carbonate	427-020-61	141772-37	Xn; R48/22 R43 N; R50-53	Xn; N R: 43-48/22-50/53 S: (2-)36/37-60-61		

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602-102-00-6	1,3,3-pentafluorobutane	430-250-1	406-58-6	F; R11	F R: 11 S: (2-)3-9-16-41		
602-103-00-1	(chlorophenylmethyl)-2-methylbenzene	431-450-1	141870-52	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)36/37-60-61		
602-104-00-7	2,2,3,3,4-heptafluorocyclopentane	430-710-1	15290-77	R52-53	R: 52/53 S: 61		
603-109-00-7	mixture of: 1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane; 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane	425-340-0	—	R53	R: 53 S: 21-23-61		
603-110-00-2	mixture of: <i>cis</i> -2-isobutyl-5-methyl 1,3-dioxane; <i>trans</i> -2-isobutyl-5-methyl 1,3-dioxane	426-130-1	166301-2	Xi; R38 R52-53	Xi R: 38-52/53 S: (2-)23-37-61		
603-111-00-8	mixture of: 1-(1,1-dimethylpropyl)-4-ethoxy- <i>cis</i> -cyclohexane; 1-(1,1-dimethylpropyl)-4-ethoxy- <i>trans</i> -cyclohexane	426-530-6	—	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)24-37-60-61		
603-112-00-3	cyclopentyl 2-phenylethyl ether	428-340-9	—	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		

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603-113-00-9	glycidyl oxymethyl ether	429-960-227610-48	Muta. Cat. 3; R68 Xn; R21 Xi; R38 R43 R52-53	Xn R: 21-38-43-68-52/53 S: (2-)36/37/39-61		
603-114-00-42	propenyloxytricyclo[5.2.1.0(2,6)]dec-3(1H)-ene	430-830-226912-64	Ki; R38 R51-53	Xi; N R: 38-51/53 S: (2-)23-37-61		
603-115-00-X	mixture of: <i>O,O',O''</i> - (methylsilyl)tris(4-methyl-2-pentanone oxime) (3 stereoisomers)	423-580-0—	Xn; R48/22 R53	Xn R: 48/22-53 S: 2-36-61		
603-116-00-25	(2,4-difluorophenyl)piperidin-4-ylmethanone oxime monohydrochloride	424-740-2138271-16	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
603-182-00-5	Reaction mixture of: saturated, monounsaturated and multiple unsaturated long- chained partly estrified alcohols of vegetable origin ( <i>Brassica napus</i> L., <i>Brassica rapa</i> L., <i>Helianthus annuus</i> )	428-630-5—	R43	Xi R: 43 S: (2-)24-37		

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	L., <i>Glycine hispida</i> , <i>Gossypium hirsutum</i> L., <i>Cocos nucifera</i> L., <i>Elaeis guineensis</i> ) with <i>O,O</i> - diisobutyl dithiophosphate and 2- ethylhexylamine and hydrogen peroxide						
603-188-00-8	mixture of: 6,7- epoxy-1,2,3,4,5,6,7,8- octahydro-1,1,2,4,4,7- hexamethylnaphthalene; 7,8- epoxy-1,2,3,4,6,7,8,8a- octahydro-1,1,2,4,4,7- hexamethylnaphthalene	426-970-9	—	N; R50-53	N R: 50/53 S: 60-61		
603-190-00-9	1,7- dimethyl-7- isopropyl-6,10- dioxaspiro[4.5]decane	424-030-2	62406-73	Xi; R38 R52-53	Xi R: 38-52/53 S: (2-)24-37-61		
603-192-00-X	( <i>E,E</i> )-3,7,11- trimethyldodeca-1,4,6,10- tetraen-3- ol	423-240-1	125474-34	Xi; R38-41 R43 N; R50-53	Xi; N R: 38-41-43-50/53 S: (2-)23-24-26-37/39-60-61		
603-193-00-5	Sodium 9,10- anthracenedioxide	426-030-8	46492-07	C; R35	C R: 35 S: (1/2-)26-36/37/39-45		
603-194-00-02	(2- aminoethylamino)ethanol (AEEA)	203-867-5	111-41-1	Repr. Cat. 2; R61 Repr. Cat. 3; R62 C; R34	T R: 61-34-43-62 S: 53-45	C ≥ 25 %: T; 61-34-43-62 10 % ≤ C < 25 %: T; R61-34-43-62	

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					R43		5 % ≤ C < 10 %: T; R61-36/37/38-43-62 1 % ≤ C < 5 %: T; R61-43 0,5 % ≤ C < 1 %: T; R61	
603-200-00-1	pentanol; [1] 3-pentanol [2]	200-752-171-41-0 [1] 209-526-7584-02-1 [2]			R10 Xn; R20 Xi; R37/38	Xn R: 10-20-37/38 S: (1/2-)36/37-46		
603-201-00-1	(7R,11R)-3,7,11,15-tetramethylhexadec-2-ene-1-ol	416-120-5—			Xi; R38 R53	Xi R: 38-53 S: (2-)37-61		
603-202-00-1	2,2,5,5,5-pentafluoropentanol	421-360-9148043-73			Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)23-61		
603-203-00-1	1,2,3,7,8,10,13,14,17,18,19,9,9,13-hexamethyl-4,6-dioxatetracyclo[6.5.1.0 <sup>1,10</sup> .0 <sup>3,7</sup> ]tetradecane	427-558-099-13-10			Xi; R38	Xi R: 38 S: (2-)37		
603-204-00-1	mixture of: 2,2'-(heptane-1,7-diyl)bis-1,3-dioxolane; 2,2'-(heptane-1,6-diyl)bis-1,3-dioxolane	428-110-8—			R52-53	R: 52/53 S: 61		
603-205-00-1	(1S-cis)-4-(2-amino-6-chloro-9H-purin-9-yl)-2-cyclopentene-1-methanol hydrochloride	426-200-1172015-79			T R48/25 Xn; R22 Xi; R41 R43 R52-53	T R: 22-41-43-48/25-52/53 S: (1/2-)22-26-36/37/39-45-61		

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603-206-00-2	1,3-dichloro-1,3-benzodioxol	426-850-6	2032-75-9	R10 R14 C; R35 Xn; R22 R43	C R: 10-14-22-35-43 S: (1/2-)/7/8-23-26-36/37/39-45	
603-207-00-X	isobutyl-2-isopropyl-1,3-dimethoxypropane	430-800-9	129228-2	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)/23-37-61	
603-208-00-3	1,2-diethoxyethane	211-076-1	629-14-1	F; R11 R19 Repr. Cat. 2; R61 Repr. Cat. 3; R62 Xi; R36	F; T R: 61-11-19-36-62 S: 53-45	
603-209-00-0	Spinosad (ISO) (a mixture of spinosyn A and spinosyn D in ratios between 95:5 to 50:50); mixture of 50-95 % of (2R,3aS,5aR,5bS,9S,13S,14R,16aS,16bR)-2-(6-deoxy-2,3,4-tri-O-methyl- $\alpha$ -L-mannopyranosyloxy)-13-(4-dimethylamino-2,3,4,6-tetra-deoxy- $\beta$ -D-erythro-pyranosyloxy)-9-ethyl-2,3,3a,5a,5b,6,7,9,10,11,12,13,14,15,16a,16b-hexadecahydro-14-methyl-1H-8-oxacyclododeca[b]as-	— — —	[1] [2] [3]	N; R50-53	N R: 50/53 S: 60-61	C $\geq$ 2,5 %: N; R50/53 0,25 % $\leq$ C < 2,5 %: N; R51/53 0,025 % $\leq$ C < 0,25 %: R52/53

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	indacene-7,15-dione and 50-5 % (2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-2-(6-deoxy-2,3,4-tri-O-methyl- $\alpha$ -L-mannopyranosyloxy)-13-(4-dimethylamino-2,3,4,6-tetra-deoxy- $\beta$ -D-erythro-pyranosyloxy)-9-ethyl-2,3,3a,5a,5b,6,7,9,10,11,12,13,14,15,16a,16b-hexadecahydro-4,14-dimethyl-1H-8-oxacyclododeca[b]as-indacene-7,15-dione; [1] spinosyn A; [2] spinosyn D [3]					
603-210-00-6	diethyl-1,5-pentane-diol	429-310-857987-55	Xi, R41	Xi R: 41 S: (2-)26-39		
604-071-00-4'	(1-{4-[1-(4-hydroxyphenyl)-1-methylethyl]phenyl}ethylidene)diphenol	425-600-3110726-28853	R53	R: 53 S: 61		
604-072-00-2-X	bis(phenoxy-methyl)benzene	428-620-010403-74	N; R50-53	N R: 50/53 S: 22-60-61		
604-073-00-5	[1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol	428-010-482413-20	Carc. Cat. 3; R40 Repr. Cat. 2; R60 R43 N; R50-53	T; N R: 60-40-43-50/53 S: 53-45-60-61		
605-023-00-5	chloro-2-	429-290-03380-30	Xi, R41	Xi, N		



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	(4-chlorophenoxy)phenol			N; R50-53	R: 41-50/53 S: (2-)26-39-60-61		
605-024-00-0	bromo-5-hydroxy-4-methoxybenzaldehyde	426-540-02973-59-3		R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
605-032-00-43	(4-fluorophenyl)-1-(1-methylethyl)-1 <i>H</i> -indol-2-yl]-( <i>E</i> )-2-propenal	425-370-493957-50-4		R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)22-24-37-60-61		
605-033-00-X	mixture of: 3,7,11-trimethyl- <i>cis</i> -6,10-dodecadienal; 3,7,11-trimethyl- <i>trans</i> -6,10-dodecadienal	425-910-932480-08-1		Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		
605-034-00-5	mixture of: (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>SR</i> ,6 <i>RS</i> ,9 <i>SR</i> )-9-methoxytricyclo[5.2.1.0(2,6)]decane-3-carbaldehyde; (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>RS</i> ,6 <i>RS</i> ,8 <i>SR</i> )-8-methoxytricyclo[5.2.1.0(2,6)]decane-3-carbaldehyde; (1 <i>RS</i> ,2 <i>RS</i> ,4 <i>SR</i> ,6 <i>RS</i> ,8 <i>SR</i> )-8-methoxytricyclo[5.2.1.0(2,6)]decane-4-carbaldehyde	429-860-9—		R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
605-035-00-3	(4-(4-fluorophenyl)-5-methoxymethyl-2,6-bis(1-methoxymethyl)pyridin-3-yl)prop-2-enal	426-330-9177964-68-1		Xi; R36 R43 R53	Xi R: 36-43-53 S: (2-)24-26-37-61		
605-036-00-6	bromomalonaldehyde	430-470-62065-75-0		Xn; R22 Xi; R41	Xn R: 22-41		

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					S: (2-)26-39		
606-074-00-6	mixture of: (1R*,2S*)-2-acetyl-1,2,3,4,5,6,7,8-octahydro-1,2,8,8-tetramethylnaphthalene; (2R*,3S*)-2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene	425-570-1	—	N; R50-53	N R: 50/53 S: 60-61		
606-090-00-β3-	[(dimethylamino)methyl]-4-hydroxyphenyl]ethanone	430-920-1	73096-98	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
606-093-06-X	ethyl-2,4-dihydro-4-(2-phenoxyethyl)-3H-1,2,4-triazol-3-one	414-470-3	95885-13	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)22-36-61		
606-094-00-5	[ethyl(3-methylbutyl)amino]-3-methyl-1-phenyl-spiro[[1]benzopyrano[2,3-c]pyrazole-4(1H),1'(3'H)-isobenzofuran]-3'-one	417-460-7	—	R53	R: 53 S: 61		
606-095-00-05-	(R,S)-2-azabicyclo[2.2.1]hept-5-en-3-one	421-830-3	49805-30	Xn; R22 R43	Xn R: 22-43 S: (2-)22-24-37		
606-096-00-66-O-	(6-desoxy-α-L-mannopyranosyl-O-(α-D-glucopyranosyl)-(β-D-glucopyranosyl)oxy)-2-(3,4-dihydroxyphenyl)-5,7-	424-170-4	130603-7	R34 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		

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	dihydroxy-4H-1-benzopyran-4-one						
606-097-00-2	2"-dihydroxy-4,4"-(2-hydroxypropane-1,3-diyl)dioxy)dibenzophenone	424-210-023911-85	R53	R: 53 S: 61			
606-098-00-7	benzyl-5-(hexadecyloxy)-2,4-imidazolidinedione	431-220-9158574-65	R53	R: 53 S: 61			
606-099-00-2	methoxy-4-(trifluoromethyl)valerophenone	425-000-161718-80	N; R51-53	N R: 51/53 S: 61			
606-100-00-6	E butyryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	425-150-894723-86	Repr.Cat.2 R60 Xn; R22 R43 R52-53	T R: 60-22-43-52/53 S: 53-45-61			
606-101-00-1	mixture of: 1,5-bis[(2-ethylhexyl)amino]-9,10-anthracenedione; 1-[(2-ethylhexyl)amino]-5-[3-[(2-ethylhexyl)oxy]propyl]amino-9,10-anthracenedione; 1,5-bis[3-[(2-ethylhexyl)oxy]propyl]amino-9,10-anthracenedione; 1-[(2-ethylhexyl)amino]-5-[(3-methoxypropyl)amino]-9,10-anthracene dione; 1-[3-[(2-ethylhexyl)oxy]propyl]amino-5-[(3-methoxypropyl)amino]-9,10-anthracenedione;	426-050-7165038-51	N; R50-53	N R: 50/53 S: 60-61			

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	1,5-bis[(3-methoxypropyl)amino]-9,10-anthracenedione						
606-102-00-73	(triethoxysilylpropoxy)-2-hydroxybenzophenone	431-490-879876-59		Xn; R51-53	N R: 51/53 S: 61		
606-103-00-24	(trans-4-ethylcyclohexyl)phenyl)ethanone	426-460-6		R43	Xi R: 43 S: (2-)24-37		
606-104-00-84	(trans-4-pentylcyclohexyl)phenyl)ethanone	426-830-778531-59		R43 R53	Xi R: 43-53 S: (2-)24-37-61		
606-105-00-33	3,3',4'-tetraphenyl-1,1'-ethandiylbispyrol-2,5-dione	431-500-0226065-73		R23 R53	Xi R: 43-53 S: (2-)22-24-37-61		
606-106-00-04	(trans-4-butylcyclohexyl)phenyl)ethanone	427-320-783626-30		R43 R53	Xi R: 43-53 S: (2-)24-37-61		
606-107-00-4	azaspiro[4.5]decane-7,9-dione	427-770-41075-89-4		T; R25 N; R51-53	T; N R: 25-51/53 S: (1/2-)22-36-45-61		
606-108-00-X	1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)-3-pentanone	436-710-6756-13-8		R52-53	R: 52/53 S: 61		
606-109-00-64	methyl-3-pentenyl)anthraquinone	428-320-171308-16		Xn; R22 R43 R53	Xn R: 22-43-53 S: (2-)22-24-37-61		
606-110-00-0	ethoxy-5H-furan-2-one	428-330-42833-30-9		C; R34 Xn; R21/22-48 R43	C R: 22-34-43-48/22 S: (1/2-)23-26-36/37/39-45		
606-111-00-6	amino-6-methyl-1,3-	428-410-967014-36		Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53		

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	dihydrobenzimidazol-2-one				S: (2-)24-37-61		
606-112-00	(4 <i>R</i> *,8 <i>R</i> *)-4a,5,9,10-tetrahydro-3-methoxy-11-methyl-6 <i>H</i> -benzofuro[3a,3,2-ef][2]benzazepin-6-one	4281692-2	1668-86-6	Xn; R22 Xi; R36 R52-53	Xn R: 22-36-52/53 S: (2-)22-26-61		
606-113-00	(4-methylphenylsulfanyl)phenyl]-2-(4-methylphenylsulfonyl)propan-1-one	429-040-0	272460-97	Xi; R41 R53	Xi R: 41-53 S: (2-)26-39-61		
606-114-00	(2,5,5',6,6',7,7'-octachloro-(2,2')biisoindolyl-1,1',3,3'-tetraone	429-150-9	67887-47	R53	R: 53 S: 61		
606-115-00	( <i>trans</i> )-2-[( <i>EZ</i> )-1-[(2 <i>RS</i> )-2-(4-chlorophenoxy)propoxyimino]butyl]-3-hydroxy-5-(thian-3-yl)cyclohex-2-en-1-one	—	139001-49	Carc. Cat. 3; R40 Repr. Cat. 3; R63 R43	Xn R: 40-43-63 S: (2-)36/37-46		
606-116-00	( <i>trans</i> )-2-[( <i>EZ</i> )-1-[(2 <i>E</i> )-3-(chloroallyloxyimino]propyl]-3-hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one	—	149979-41	Carc. Cat. 3; R40 Repr. Cat. 3; R62-63	Xn R: 40-62-63 S: (2-)36/37-46		
606-117-00	(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one	429-460-4	7078-98-0	R43 R53	Xi R: 43-53 S: (2-)24-37-61		

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606-118-00-4	1,3-dimethylbutyl)-N'-(phenyl)-1,4-benzoquinondiimine	429-640-252870-46			Xi; R36 N; R50-53	Xi; N R: 36-50/53 S: (2-)26-60-61		
606-119-00-X	(E)-3-methyl-5-cyclopentadecen-1-one	429-900-5			R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
606-120-00-5	5-dihydroxy-5-methyl-3-(morpholin-4-yl)-2-cyclopenten-1-one	430-170-5114625-74			Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)46-61		
606-121-00-0	(1S,2S,3S,5R)-2,6,6-trimethylbicyclo[3.1.1]heptane-3-spiro-1'-(cyclohex-2-en-4'-one)	430-460-1133636-82			C; R34 R43 N; R50-53	C; N R: 34-43-50/53 S: (1/2-)26-36/37/39-45-57-60-61		
606-122-00-6	(Z)-2-bromopropionyl)-4,4-dimethyl-1,3-oxazolan-2-one	430-820-8114341-88			Xn; R22-48/22 Xi; R38-41 R43 N; R50-53	Xn; N R: 22-38-41-43-48/22-50/53 S: (2-)26-36/37/39-60-61		
606-123-00-1	1-hexadecyl-1-phenylpyrazolidin-3-one	430-840-7			R43 R53	Xi R: 43-53 S: (2-)24-37-61		
607-417-00-2	2-chloropropyl chloroformiate	425-770-9628-11-5			T; R23 Xn; R22-48/22 Xi; R38-41 R43	T R: 22-23-38-41-43-48/22 S: (1/2-)26-36/37/39-45		
607-428-00-6	potassium ethylene diamine tetraacetate	200-573-964-02-8			Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)26-39-46		
607-429-00-8	ethic acid (EDTA)	200-449-460-00-4			Xi; R36	Xi R: 36 S: (2-)26		

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607-471-00-05	bis((dibenzylthiocarbamoyl)disulfanyl)hexane	429-280-6151900-44R63	R: 53 S: 61		
607-473-00-08	pentaerythritol, dipentaerythritol, fatty acids, C <sub>6-10</sub> , mixed esters with adipic acid, heptanoic acid and isostearic acid	426-590-3187412-41R53	Xi R: 43 S: (2-)24-37		
607-477-00-01 X	α,α,β,β-tetra-6-nitro-3-benzyl-3-azabicyclo[3,1,0]hexane methanesulfonate salt	426-740-8—	Xn; R22 Xi; R41 N; R51-53	Xn; N R: 22-41-51/53 S: (2-)22-26-39-61	
607-481-00-01	mixture of: trihexyl citrate; dihexyloctyl citrate; dioctylhexyl citrate; dihexyldecyl citrate	430-290-8—	R53	R: 53 S: 61	
607-482-00-07	(S)-ethoxycarbonyl-3-phenylpropyl]-L-alanyl-N-carboxyanhydride	430-360-884793-24R53	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39	
607-483-00-02	benzenedicarboxylic acid; di-C <sub>6-8</sub> -branched alkylesters, C <sub>7</sub> -rich	276-158-171888-89R61	Repr. Cat. 2; R61	T R: 61 S: 53-45	
607-484-00-01	2-[[3-acetylamino-4-	430-480-0221452-67R53	R: 53 S: 61		

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	(6-bromo-2-methyl-1,3-dioxo-2,3-dihydro-1 <i>H</i> -isoindol-5-ylazo)phenyl]ethylamino}propionate						
607-485-0033	( <i>trans</i> )-phenyl-3-[(1,3-benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl)-1-piperidinecarboxylate	430-510-2		R53	R: 53 S: 22-61		
607-486-0069	Potassium sodium 5'-(6-chloro-4-(2-(2-vinylsulfonylethoxy)ethylamino)-1,3,5-triazin-2-ylamino)-4'-hydroxy-2,3'-azodinaphthalene-1,2',5,7'-disulfonate	402-110-8	110081-40	R52-53	R: 52/53 S: 22-61		
607-491-0016	mixture of: diester of 4,4'-methylenebis[2-(2-hydroxy-5-methylbenzyl)-3,6-dimethylphenol] and 6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulfonic acid (1:2); triester of 4,4'-methylenebis[2-(2-hydroxy-5-methylbenzyl)-3,6-dimethylphenol] and 6-	427-140-9		Carc. Cat. 3; R40	Xn R: 40 S: (2-)36/37		



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	diazo-5,6-dihydro-5-oxonaphthalene-1-sulfonic acid (1:3)						
607-504-0015	Ammonium 1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalenesulfonate	422-670-7	—	Repr. Cat. 3; R62 T; R25 Xn; R48/22 N; R50-53	T; N R: 25-48/22-62-50/53 S: (1/2-)36/37-45-60-61		
607-509-002	2-phenoxyethyl 4-aminobenzoate	430-880-5	88938-23	N; R51-53	N R: 51/53 S: 61		
607-510-0028,5R	(6,6-dibromo-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid 4,4-dioxide	427-200-4	76646-91	Xn; R22 Xi; R38-41 R43	Xn R: 22-38-41-43 S: (2-)24-26-37/39		
607-511-00A3	mixture of: 4-[(3-decyloxypropyl)(3-isobutoxy-1-isobutoxycarbonyl-3-oxopropyl)amino]-4-oxobutyric acid; 4-[(3-isobutoxy-1-isobutoxycarbonyl-3-oxopropyl)(3-octyloxypropyl)amino]-4-oxobutyric acid	423-750-4	—	Xi; R36 N; R51-53	Xi; N R: 36-51/53 S: (2-)26-61		
607-514-00X	Potassium N-(1-methoxy-1-oxobut-2-	427-240-2	134841-35	R34	Xi R: 43 S: (2-)24-37		

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	en-3-yl)valinate						
607-518-00-1	oxoandrosterone-17-β-carboxylic acid	414-990-0302-97-6			Repr. Cat. 3; R62 R53	Xn R: 62-53 S: (2-)36/37-61	
607-519-00-1	poly-[[[(4-ethyl-ethylene)amino)phenyl)-(4-(ethyl-(2-oxyethylene)amino)phenyl)methinyl)cyclohexa-2,5-dienylidene)-N-ethyl-N-(2-hydroxyethyl)ammonium acetate]	427-280-0176429-279			Xi; R37/38-41 N; R50-53	Xi; N R: 37/38-41-50/53 S: (2-)26-37/39-60-61	
607-520-00-2	mixture of: sodium 4,5-dihydro-2-[(propionato)(C <sub>6-18</sub> alkyl]-3H-imidazolium-N-ethylphosphate; disodium 4,5-dihydro-2-[(dipropionato)(C <sub>6-18</sub> alkyl]-3H-imidazolium-N-ethylphosphate	427-740-0—			Xi; R41 R43	Xi R: 41-43 S: (2-)24-26-37/39	
607-521-00-8	Diethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	429-270-1136210-309			R43 R52-53	Xi R: 43-52/53 S: (2-)36/37-61	
607-522-00-3	Sodium salt of the polymer of: sodium 2-	429-720-7184246-869			R52-53	R: 52/53 S: 61	

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	methylbuta-1,3-diene-1-sulfonate with acrylic acid and 2-hydroxyethyl-2-methylacrylate						
607-523-0049	Mixture of mono to tetra(lithium and/or sodium)3-amino-10-[4-(4-amino-3-sulfonatoanilino)-6-[methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2-ylamino]-6-13-dichlorobenzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to tetra(lithium and/or sodium)3-amino-10-[4,6-bis(4-amino-3-sulfonatoanilino)-1,3,5-triazin-2-ylamino]-6-13-dichlorobenzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to penta(lithium and/or sodium)10,10'-diamino-6,6',13,13'-tetrachloro-3,3'-[6-[methyl-	430-200-7	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		

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	(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diyl-diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to hepta(lithium and/or sodium)10-amino-6,6',13,13'-tetrachloro-10'[4-(4-amino-3-sulfonatoanilino)-[6-methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to hepta(lithium and/or sodium)10,10'-diamino-6,6',3,3'[(2-sulfonato)-1,4-phenylenediiminobis[6-methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diyl-diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate					
607-524-0044	oil 2-[(tetrahydro-2H-pyran-2-yl)thio]ethyl esters	430-310-5		R53	R: 53 S: 61	
607-525-002X	(Z)-2-methoxymino-2-[2-(tritylamino)thiazol-4-	431-520-1	64485-90	E; R2 Carc. Cat. 3; R40 R52-53	E; Xn R: 2-40-52/53 S: (2-)23-25-35-36/37-61	

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	yl]acetic acid						
607-528-0056	3-methyl-2-(2-oxotetrahydropyrimidine-1-yl)butyric acid	430-900-2192725-50			Xi; R41	Xi R: 41 S: (2-)26-39	
607-529-0060	benzyl <i>cis</i> -4-ammonium-4'-toluenesulfonato-1-cyclohexanecarboxylate	426-070-667299-45			R52-53	R: 52/53 S: 61	
607-530-0067	mixture of isomers of: C <sub>7-9</sub> -alkyl 3-(3,5-di- <i>trans</i> -butyl-4-hydroxyphenyl)propionate	406-040-9125643-61			R53	R: 53 S: 61	
607-531-0062	methyl 3-amino-4,6-dibromo-2-methylbenzoate	425-190-6119916-05			Xn; R48/22 N; R51-53	Xn; N R: 48/22-51/53 S: (2-)22-36-61	
607-532-0058	1-[2- <i>trans</i> -butoxycarbonyl-3-(2-methoxyethoxy)propyl]-1-cyclopentanecarboxylic acid, cyclohexylamine salt	425-510-4167944-94			R52-53	R: 52/53 S: 61	
607-533-0063	pentasodium monohydrogen 6-chloro-3,10-bis[2-[4-chloro-6-(2,4-disulfophenylamino)-1,3,5-triazin-2-yl-amino]ethylamino]-13-	414-910-4—			Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39	

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	ethylbenzo[5.6][1.4]oxazino[2,3-b]phenoxazine-4,11-disulfonate						
607-534-00-01	ethyl 2-(3-benzoylphenyl)propanoate	414-920-9	60658-04-0	T; N R25-48/25 R43 N; R51-53	T; N R: 25-43-48/25-51/53 S: (1/2-)36/37-45-61		
607-535-00-01	potassium 4-iodo-2-sulfonato-benzoic acid	426-620-5	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
607-536-00-01 X	2,6-xilyloxy) acetic acid	430-910-7	13335-71-2	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)26-39-61		
607-537-00-01	isopropylammonium 2-(3-benzoylphenyl)propionate	417-970-1	—	T; R25-48/25 Xn; R21 Xi; R41 N; R50-53	T; N R: 21-25-41-48/25-50/53 S: (1/2-)22-26-36/37/39-45-60-61		
607-539-00-01	propyl((4-(5-oxo-3-propylisoxazolidin-4-ylidene)methyl)phenyl)propoxycarbonylmethyleneamino)acetate	431-000-2	198705-8-1	R63	R: 53 S: 61		
607-540-00-01	(mercaptomethyl)cyclopropylacetic acid	420-240-3	162515-68-6	C; R34 Xn; R21/22 R43 N; R51-53	C; N R: 21/22-34-43-51/53 S: (1/2-)22-26-36/37/39-45-61		
607-541-00-01	1,7-methyl-1,2-ethanediyl)bis[nitrilobis(methylene)]]tetraakisphosphonic acid	421-940-1	28698-31-5	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
607-542-00-01	ethyl 2-(4-butanefulfonamidophenoxy)tetradecanoate	422-110-1	—	N; R50-53	N R: 50/53 S: 60-61		
607-543-00-01	di-[[[(4-(ethyl-	427-480-8	176429-22-4	X; R37/38-41	Xi; N R: 37/38-41-50/53		

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	ethylene)amino)phenyl)- (4- (ethyl- (2- oxyethylene)amino)phenyl)methinyl)-3- methylcyclohexa-2,5- dienylidene)-N- ethyl-N- (2- hydroxyethyl)ammonium acetate]			N; R50-53	S: (2-)26-37/39-60-61	
607-544-00	Byl 6,8- difluoro-1- (formylmethylamino)-1,4- dihydro-7- (4- methyl)piperazin-1- yl)-4- oxo- quinoline-3- carboxylate	427-490-2158585-8	6052-53	R52-53	R: 52/53 S: 61	
607-545-00	2- dimethyl-3- (1- methylethenyl)cyclopentyl acetate	424-070-094346-09		Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)37-61	
607-546-00	4 mixture of: methyl {[5- acetylamino-4- (2- chloro-4- nitrophenylazo)phenyl]methoxycarbonylmethylamino} acetate; methyl {[5- acetylamino-4- (2- chloro-4- nitrophenylazo)phenyl]ethoxycarbonylmethylamino} acetate	424-290-7188070-47	R43		Xi R: 43 S: (2-)22-24-37	
607-547-00 X	8- methylnonadecyl 2,2 - dimethylpropanoate	424-370-1125496-22		Xi; R38 R43 R53	Xi R: 38-43-53 S: (2-)24-37-61	
607-548-00	6,4- dichlorophenyl)-2- (1H-	431-010-7154486-26		Xn; R22 Xi; R41	Xn; N R: 22-41-51/53	

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	imidazol-1-yl)ethanone methanesulfonate				N; R51-53	S: (2-)22-26-39-61		
607-549-00-0	1-methyl (E)-2((3-(1,3-benzodioxol-5-yl)-2-methyl-1-propenyl)amino)benzoate	424-430-7	125778-1	90	R50-53	N R: 50/53 S: 60-61		
607-550-00-6	4-amino-4-bromo-5-chlorobenzoic acid	424-700-4	—	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
607-551-00-1	2-(2-tributylammonium-6-iodopurinate)	424-710-9	156126-4	82	Xn; R21/22-48 Xi; R38-41 R43 N; R51-53	Xn; N R22 21/22-38-41-43-48/22-51/53 S: (2-)26-36/37/39-61		
607-552-00-7	3-azadodecyl 3-amino-4-isopropoxybenzoate	424-830-1	—	—	R53	R: 53 S: 35-61		
607-553-00-2	4-amino-4-hydroxy-2-naphthalenesulfonic acid, coupled with 5 (or 8) - amino-8 (or 5)-[[4-[[4-[[4-amino-6(or 7)-sulfo-1-naphthyl]azo]phenyl]amino]-3-sulfo-phenyl]azo]-2-naphthalenesulfonic acid and 4-hydroxy-7-(phenylamino)-2-naphthalenesulfonic acid,	424-850-0	—	—	Xi; R41	Xi R: 41 S: (2-)26-39		



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	sodium salt						
607-554-00-8	5-diamino-4-[4-[(2-sulfoxyethyl)sulfonyl]phenylazo]benzenesulfonic acid	424-870-127624-67			E; R3 Xi; R41 R52-53	E; Xi R: 3-41-52/53 S: (2-)22-26-35-39-61	
607-555-00-3	3,3,3-tetramethylbutylperoxyvalate	424-980-822288-41			F; R11 O; R7 Xi; R38 R43 N; R51-53	F; O; Xi; N R: 7-11-38-43-51/53 S: (2-)7-14-16-36/37/39-47-61	
607-556-00-9	4-acetoxymethylene-4-acetylphenylacetate	425-160-224085-06			Xn; R22-48/22 Xi; R41 R43 N; R50-53	Xn; N R: 22-41-43-48/22-50/53 S: (2-)22-26-36/37/39-60-61	
607-557-00-0	Salt of: (1 <i>S</i> - <i>cis</i> )-1-amino-2,3-dihydro-1 <i>H</i> -inden-2-ol and [ <i>R</i> - [ <i>R</i> * <i>R</i> *]]-2,3-dihydroxybutanedioic acid	425-210-3169939-84			R43	Xi R: 43 S: (2-)24-37	
607-558-00-X	(5 <i>R</i> -1-methyl-1 <i>R</i> -cyclohexyl(2 <i>R</i> ,5 <i>S</i> )-5-(4-amino-2-oxo-2 <i>H</i> -pyrimidin-1-yl)-[1.3]-oxathiolane-2-carboxylate	425-250-1147027-10			N R51-53	N R: 51/53 S: 61	
607-559-00-0	Coconut oil, reaction products with glycerol esters	425-400-6179986-09			R53	R: 53 S: 61	

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	of 3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid						
607-560-00	(2S)-2-butyl-octanedioic acid	431-210-4	50905-10	Xi; R41	Xi R: 41 S: (2-)26-39		
607-561-06	Sodium 4-hydroxy-3-(N-(2-(2-hydroxyethanesulfonyl)ethylene)ureido)-5-nitrobenzenesulfonate	425-460-3	—	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-562-00	1 mixture of: (2R,3R)-3-(2-ethoxyphenoxy)-2-hydroxy-3-phenylpropylammonium methanesulfonate; (2S,3S)-3-(2-ethoxyphenoxy)-2-hydroxy-3-phenylpropylammonium methanesulfonate	425-530-3	98769-75	Xn; R22 Xi; R41 N; R51-53	Xn; N R: 22-41-51/53 S: (2-)22-26-39-61		
607-563-06	7-dichloro-4-hydroxyquinoline-3-carboxylic acid	431-250-2	171850-30	N R51-53	N R: 51/53 S: 61		
607-564-00	6-hexanediammonium, sodium 5-sulfato-1,3-benzenedicarboxylate	425-730-0	51178-75	R43	Xi R: 43 S: (2-)24-37		
607-565-00	8-ethyl 5-methyl 2-(2-aminoethoxymethyl)-4-(2-chlorophenyl)-1,4-dihydro-6-	425-820-1	88150-42	T; R25 Xn; R48/22 Xi; R41 N; R50-53	T; N R: 25-41-48/22-50/53 S: (1/2-)26-36/37/39-45-60-61		

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	methyl-3,5-pyridinedicarboxylate					
607-566-00-3	mixture of: dodecylphenyl dodecylhydroxybenzenecarboxylate; bis(dodecylphenyl)dodecyl hydroxybenzenedicarboxylate	426-140-6		R53	R: 53 S: 61	
607-567-00-9	potassium 3-iodo-6-methylbenzenesulfonate	426-300-5		Xi; R41	Xi R: 41 S: (2-)26-39	
607-568-00-4	potassium 2-chloro-3-(benzyloxy)propionate	426-350-8	138666-9	Xn; R22-48/22 Xi; R41 R43	Xn R: 22-41-43-48/22 S: (2-)26-36/37/39	
607-569-00-X	mixture of: sodium 2-amino-4-(2,6-difluoropyrimidin-4-ylamino)benzenesulfonate; sodium 2-amino-4-(4,6-difluoropyrimidin-4-ylamino)benzenesulfonate	426-470-0		R43	Xi R: 43 S: (2-)22-24-37	
607-570-00-5	sodium (6 <i>R</i> - <i>trans</i> )-7-amino-8-oxo-3-[[[1-(sulfomethyl)-1 <i>H</i> -tetrazol-5-yl]thio]methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate monohydrate	426-520-1	1420-85	R43	Xi R: 43 S: (2-)24-37	
607-571-00-0	cyclopentene-1-acetic acid, 3-	431-400-7	57374-49	R43 N; R51-53	Xi; N R: 43-51/53	

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	hydroxy-2-pentyl-, methyl ester acetate				S: (2-)24-37-61		
607-572-00	diethyl thiophosphoryl (Z)-(2-aminothiazol-4-yl)methoxyimino acetate	426-790-01	62208-27	Xn; R21/22-48 R43 N; R50-53	Xn; N R22 21/22-43-48/22-50/53 S: (2-)36/37-60-61		
607-573-00	1 mixture of: disodium 7-(2,4-difluoropyrimidin-6-ylamino)-4-hydroxy-3-(4-methoxy-2-sulfonatophenylazo)naphthalene-2-sulfonate; disodium 7-(4,6-difluoropyrimidin-2-ylamino)-4-hydroxy-3-(4-methoxy-2-sulfonatophenylazo)naphthalene-2-sulfonate	426-840-1	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-574-00	R-(1- $\alpha$ ,2 $\beta$ ,5 $\alpha$ )]-mono[5-methyl-2-(1-methylethyl)cyclohexyl]butanedioate	426-890-47	7341-67	Xi; R41	Xi R: 41 S: (2-)26-39		
607-575-00	25-(5-[1-(4-carboxyphenyl)hexahydro-2,4,6-trioxopyrimidin-5-ylidene]penta-1,3-dienyl)-1,2,3,4-tetrahydro-6-hydroxy-2,4-dioxopyrimidin-1-yl)benzoic acid-	426-900-7	—	Xi; R37 R52-53	Xi R: 37-52/53 S: (2-)61		

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	triethylamine salt						
607-576-00	anchored, octyl 3-[3,5-di( <i>trans</i> -butyl)-4-hydroxyphenyl]propanoate	427-030-0	—	N; R50-53	N R: 50/53 S: 60-61		
607-577-00	(2 <i>R</i> *,3 <i>S</i> *)-2-(2,4-difluorophenyl)-3-(5-fluoro-4-pyrimidinyl)-1-(1 <i>H</i> -1,2,4-triazol-1-yl)butan-2-ol (1 <i>R</i> )-10-camphorsulfonate	427-100-0	—	Xn; R22 Xi; R41 R43 R52-53	Xn R: 22-41-43-52/53 S: (2-)22-24-26-37/39-61		
607-578-00	ethyl 4-((4-diethylamino-2-methylphenyl)imino)-4,5-dihydro-1-isopropyl-5-oxo-1 <i>H</i> -pyrazole-3-carboxylate	427-110-5	—	Xn; R22-48/22 R53	Xn R: 22-48/22-53 S: (2-)36-61		
607-579-00	diethyl[( <i>p</i> -ethoxyanilino)methylene]malonate	431-430-0	103976-28	Xn; R22 N; R51-53	Xn; N R: 22-51/53 S: (2-)61		
607-581-00	ethyl 2-ethoxy-4-carboxymethylbenzoate	427-630-2	99469-99	Xi; R41	Xi R: 41 S: (2-)26-39		
607-582-00	mixture of: tetrasodium 7-(4-(4-fluoro-6-(4-(2-sulfonatoethylsulfonyl)phenylamino)-1,3,5-triazin-2-ylamino)-2-ureidophenylazo)naphthalene-1,3,6-trisulfonate;	427-650-1	—	R52-53	R: 52/53 S: 22-61		

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	tetrasodium 7-(4-(4- hydroxy-6- (4-(2- sulfonatoethylsulfonyl)phenylamino)-1,3,5- triazin-2- ylamino)-2- ureidophenylazo)naphthalene-1,3,6- trisulfonate						
607-583-00-6	amino-3- [[4-[[2- (sulfoxy)ethyl]sulfonyl]phenyl]azo]-1- naphthalene sulfonic acid	427-680-5188907-52	Xn; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)22-24-26-37/39-61			
607-584-00-1	sodium 3-[2- acetylamino-4- [4- chloro-6- [4-(2- sulfonatoxyethylsulfonyl)phenylamino]-1,3,5- triazine-2- ylamino]phenylazo]naphthalene-1,5- disulfonate	427-710-7215612-56	Xn; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)24-26-37/39-61			
607-585-00-7	antium 2-[(2- hydroxy-6- sulfonato-1- naphthyl)azo]naphthalene-1- sulfonate	427-930-3—	R43	Xi R: 43 S: (2-)22-24-37			
607-586-00-2	decyl 3- amino-4- chlorobenzoate	428-020-96195-20-6	R43 R53	Xi R: 43-53 S: (2-)24-37-61			
607-587-00-8	yl cis-4-[4- [[2-(2,4- dichlorophenyl)-2- (1H- imidazol-1- ylmethyl)-1,3- dioxolan-4- yl]methoxy]phenyl]piperazine-1- carboxylate	428-030-367914-69-8	Xn; R22-48/22 N; R50-53	Xn; N R: 22-48/22-50/53 S: (2-)36-60-61			
607-588-00-3	mixture of: 2- ethylhexyl	428-050-2—	R43 N; R50-53	Xi; N R: 43-50/53			

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	2,3,4,5-tetrabromobenzoate; bis(2-ethylhexyl)3,4,5,6-tetrabromophthalate				S: (2-)36/37-60-61		
607-589-00	terakis(1,2,2,6,6-pentamethyl-4-piperidyl)-1,2,3,4-butanetetracarboxylate	428-070-1	191788-83-9	R; R48/25 Xn; R22 N; R50-53	T; N R: 22-48/25-50/53 S: (1/2-)22-36-45-57-60-61		
607-590-00	hexadecyl 3-[2-(5,5-dimethyl-2,4-dioxo-1,3-oxazolidin-3-yl)-4,4-dimethyl-3-oxovaleramido]-4-isopropoxybenzoate	428-140-1	1210706-50-6	R53	R: 53 S: 61		
607-591-00 X	A mixture of: trisodium 5-(4-fluoro-6-morpholin-4-yl-1,3,5-triazin-2-ylamino)-4-hydroxy-3-(4-(2-sulfooxyethanesulfonyl)phenylazo)naphthalene-2,7-disulfonate; disodium 3-(4-ethenesulfonylphenylazo)-5-(4-fluoro-6-morpholin-4-yl-1,3,5-triazin-2-ylamino)-4-hydroxynaphthalene-2,7-disulfonate	428-400-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-592-00	di(C <sub>9-11</sub> -alkyl) cyclohexane-1,4-dicarboxylate	428-870-0	—	R53	R: 53 S: 61		

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607-593-00-02-	methylacryloyloxy)phenyl 4-allyloxybenzoate	429-000-2159235-16R23	6R23 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-594-00-06-	ethyl (1S,5R,6S)-5-(1-ethylpropoxy)-7-oxabicyclo[4.1.0]hept-3-ene-3-carboxylate	429-020-1204254-96X6	X6; R48/22 R43	Xn R: 43-48/22 S: (2-)22-36/37		
607-595-00-04-	amidino-N-methylglycine-2-oxopropionate	429-120-5208535-04X1	X1; R41	Xi R: 41 S: (2-)26-39		
607-596-00-07-	ethyl 2-(4-phenoxyphenyl)lactate	429-220-9132584-17R43	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)36/37-57-60-61		
607-597-00-02-	disodium 4,4'-bis{4-[4-(2-hydroxyethylamino)-6-(4-sulfonatoanilino)-1,3,5-triazin-2-ylamino]phenylazo}stilbene-2,2'-disulfonate	429-230-3—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-598-00-08-	disodium 3-amino-4-[4-[4-(2-(2-ethenylsulfonylethoxy)ethylamino)-6-fluoro-1,3,5-triazine-2-ylamino]-2-sulfophenylazo]-5-hydroxynaphthalene-2,7-disulfonate	429-240-8212652-59X1	X1; R41	Xi R: 41 S: (2-)26-39		
607-599-00-03-	dimethylpropyl 3,5,5-trimethylperoxyhexanoate	431-610-968860-54R7	R7 R43 N; R50-53	O; Xi; N R: 7-43-50/53 S: (2-)3-14-36/37/39-60-61		



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607-600-0013	[1-(3',3'-dimethyl-1'-cyclohexyl)ethoxycarbonyl]methyl propanoate	431-700-8	—	N; R51-53	N R: 51/53 S: 61		
607-601-002	2,2,6,6-tetramethylpiperidinium 2-hydroxy-1,2,3-propanetricarboxylate	429-370-5	220410-74	Xn; R22	Xn R: 22 S: (2-)		
607-602-008	3-cyanomethyl-3,4-dihydro-4-oxophthalazin-1-yl)acetate	429-680-0	122665-86	R51-53 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-603-004	potassium sodium 4,4',4''-(nitrilotris(ethane-2,1-diylimino(6-chloro-1,3,5-triazine-4,2-diyl)imino))tris(5-hydroxy-6-(1-sulfonaphthalene-2-ylazo)-2,7-naphthalene)disulfonate	429-730-1	193562-37	Xn; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		
607-604-009	guanidinium benzoate	429-820-0	26739-54	Xn; R22	Xn R: 22 S: (2-)22-25		
607-605-004	methyl 4-iodo-2-(3-(4-methoxy-6-methyl-1,3,5-triazine-2-yl)ureidosulfonyl)benzoate	429-890-2	144550-06	N; R50-53	N R: 50/53 S: 60-61		
607-606-002 X	(Z)-2-(2-t-butoxycarbonylamino-4-thiazolyl)pent-2-enoic acid	430-100-3	86978-24	Xn; R22	Xn R: 22 S: (2-)22		
607-607-005	mixture	430-180-1	—	Xi; R38	Xi; N		

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	of: calcium bis(C <sub>10-14</sub> branched alkyl salicylate); calcium bis(C <sub>18-30</sub> - alkyl salicylate); calcium C <sub>10-14</sub> branched alkylsalicylato- C <sub>18-30</sub> - alkyl salicylate; calcium bis (C <sub>10-14</sub> branched alkyl phenolate); calcium bis (C <sub>18-30</sub> - alkyl phenolate); calcium C <sub>10-14</sub> branched alkylphenolato- C <sub>18-30</sub> - alkyl phenolate; C <sub>10-14</sub> branched alkyl phenol; C <sub>18-30</sub> - alkyl phenol			N; R51-53	R: 38-51/53 S: (2-)24-37-61		
607-608-000	Potassium 2-(4-{5- [1-(2,5- disulfophenyl)-4,5- dihydro-3- methylcarbamoyl-5- oxopyrazol-4- ylidene]-3- (2-	430-210-1	—	N; R50-53	N R: 50/53 S: 60-61		

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	pyrrolidinone-1-yl)-1,3-pentadienyl}-3-methylcarbamoyl-5-oxopyrazol-1-yl)benzene-1,4-disulfonate						
607-609-00	ethyl (3R)-4-cyano-3-hydroxybutanoate	430-220-6	141942-85	Xn; R36	Xi R: 36 S: (2-)26		
607-610-00	sodium 4-hydroxy-6-(sulfonatomethylamino)-5-(2-(2-sulfatoethylsulfonyl)phenylazo)naphthalene-2-sulfonate	430-280-3	—	R43	Xi R: 43 S: (2-)22-24-37		
607-611-00	ethyl 3-amino-2,2,3-trimethylbutyrate	431-720-7	90886-53	C; R34 Xn; R22 R52-53	C R: 22-34-52/53 S: (1/2-)23-26-36/37/39-45-61		
607-612-00	2 mixture of: 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonic acid; ammonium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonate	432-190-1	182176-52	Xn; R22-48/22 Xi; R41	Xn R: 22-41-48/22 S: (2-)26-36/37/39		
607-613-00	mixture of: succinic acid; monopersuccinic acid; dipersuccinic acid; monomethyl ester of succinic acid; monomethyl ester of persuccinic acid;	432-790-1	—	Muta. Cat. 3; R68 C; R34 Xn; R20/21/22	C R: 20/21/22-34-68 S: (1/2-)26-28-36/37/39-45		



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	mainly of 3-mercapto-1,2-bis(mercaptoacetoxyp propane and oligomers of this substance						
607-616-00-4	4-dichloro-5-fluorobenzoylchloride	428-390-1	86393-34	Xi; R37/38-41 R43 R52-53	Xi R: 37/38-41-43-52/53 S: (2-)24-26-37/39-61		
607-617-00-X	bis(2-ethylhexyl)-4,5-epoxycyclohexane-1,2-dicarboxylate	430-700-5	10138-36	R43	Xi R: 43 S: (2-)24-37		
608-020-00-1	phenoxymethylene-2-aminopropane	427-110-6	79463-77	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
608-032-00-2	acetamiprid (ISO); (E)-N <sup>1</sup> -[(6-chloro-3-pyridyl)methyl]-N <sup>2</sup> -cyano-N <sup>1</sup> -methylacetamidine	—	135410-20	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)46-61		
608-044-00-8	cyclohexylidene-2-phenylacetonitrile	423-740-1	10461-98	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61		
608-046-00-04	4-chloro-2-nitro-phenylazo)-1,2-dihydro-6-hydroxy-1,4-dimethyl-2-oxo-pyridine-3-carbonitrile	425-310-7	77889-90	R53	R: 53 S: 61		

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608-047-00-4	piperidin-1-yl-benzonitrile	427-330-172752-52	N; R51-53	N R: 51/53 S: 61		
608-048-00-X	(3-cyclopentyl-4-methoxyphenyl)-4-oxo-cyclohexanecarbonitrile	427-450-4152630-47	Xn; R22-48/22 R43 N; R51-53	Xn; N R: 22-43-48/22-51/53 S: (2-)36/37-61		
608-049-00-54	(4-(butyl-(1-methylhexylamino)phenyl)-3-cyano-5-oxo-1,5-dihydropyrrol-2-ylidene)propandinitrile	429-180-2157362-53	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
608-050-00-A0	mixture of: 5-(2-cyano-4-nitrophenylazo)-2-(2-(2-hydroxyethoxy)ethylamino)-4-methyl-6-phenylaminonicotinonitrile; 5-(2-cyano-4-nitrophenylazo)-6-(2-(2-hydroxyethoxy)ethylamino)-4-methyl-2-phenylaminonicotinonitrile	429-760-5—	R53	R: 53 S: 61		
608-051-00-R6	(4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonitrile	430-760-2219861-18	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)36/37-61		
608-052-00-S1	(4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonitrile	430-770-7128173-52	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)36/37-61		
608-053-00-R7(S)	(4-(4-dimethylamino-1-	430-780-1103146-25	Xn; R22 R43	Xn; N R: 22-43-51/53		

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	(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzotrile				N; R51-53	S: (2-)36/37-61	
608-054-0025	(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzotrile hemisulfate	430-790-6	—		Xn; R22 Xi; R41 R43 N; R51-53	Xn; N R: 22-41-43-51/53 S: (2-)22-26-36/37/39-61	
608-055-0018	4-chloro-5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile	—	120068-3	713	R23/24/25-48/25 N; R50-53	T; N R23/24/25-48/25 S: (1/2-)28-36/37-45-60-61	C ≥ 25 %: R23/24/25-48/25-50/53 R23/24/25-48/25-50/53 ≤ C < 25 %: T, N; R20/21/22-48/25-50/53 3 % ≤ C < 10 %: Xn, N; R20/21/22-48/22-50/53 2,5 % ≤ C < 3 %: Xn, N; R48/22-50/53 1 % ≤ C < 2,5 %: Xn, N; R48/22-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53
608-056-0003	methyl-N-cyanomethylmorpholiniummethylsulfate	429-340-1	—		Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)22-26-39	
608-057-0009	cyanomethyl-4-methylmorpholiniumhydrogene sulfate	431-200-1	1208538-3	445	Xn; R22 Xi; R41 R43	Xn R: 22-41-43 S: (2-)22-24-26-37/39	

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609-072-00-3	mesyl-2-nitrotoluene	430-550-01671-49-4	Repr. Cat. 3; R62 Xn; R22 R43 R52-53	Xn R: 22-43-62-52/53 S: (2-)22-36/37-61		
609-073-00-9	potassium sodium N,N'-bis{6-[7-[4-(4-chloro-1,3,5-triazin-2-yl)amino-4-(2-ureidophenylazo)]naphthalene-1,3,6-trisulfonato]}-N'-(2-aminoethyl)piperazine	427-850-9—	R43	Xi R: 43 S: (2-)22-24-37		
611-050-00-3	mixture of: pentasodium 7-amino-3-[[[4-[[[4-[[[4-[[[6-amino-1-hydroxy-3-sulfonato-2-naphthyl]azo]-7-sulfonato-1-naphthyl]azo]phenyl]amino]-3-sulfonato-6-phenyl]azo]-6-sulfonato-1-naphthyl]azo]-4-hydroxynaphthalen-2-sulfonate; pentasodium 7-amino-8-[4-[4-[4-[4-(2-amino-5-hydroxy-7-sulfonato-naphthalen-1-ylazo)-7-sulfonato]naphthalen-1-	415-350-3—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)22-26-39-61		



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ylazo]- phenylamino]-3- sulfonato- phenylazo]-6- sulfonato- naphthalen-1- ylazo]-4- hydroxy- naphthalene-2- sulfonate; pentasodium 7- amino-8- [4-[4-[4- [4-(6- amino-1- hydroxy-3- sulfonato- naphthalen-1- ylazo)-7- sulfonato]naphthalen-1- ylazo]- phenylamino]-3- sulfonato- phenylazo]-6- sulfonato- naphthalen-1- ylazo]-4- hydroxy- naphthalene-2- sulfonate; tetrasodium 7- amino-4- hydroxy-3- [4-[4- [4-(4- hydroxy-7- sulfonato- naphthalen-1- ylazo)-2- sulfonato- phenylamino]phenylazo]-6- sulfonato- naphthalen-1- ylazo]naphthalene-2- sulfonate; tetrasodium 7- amino-4- hydroxy-3- [4-[4- [4-(4-						
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	amino-7-sulfonato-naphthalen-1-ylazo)-2-sulfonato-phenylamino]phenylazo]-6-sulfonato-naphthalen-1-ylazo]naphthalene-2-sulfonate					
611-102-00	Reaction product of: C.I. LeucoSulfur Black 1 and a mixture of: disodium 4-{4-[8-amino-1-hydroxy-7-(4-sulfamoylphenylazo)-3,6-disulfonato-2-naphthylazo]phenylsulfonlamino} benzenediazonium chloride; disodium 4-{4-[2,6-dihydroxy-3-(8-hydroxy-3,6-disulfonato-1-naphthylazo)phenylazo]phenylsulfonlamino} benzene diazonium chloride	424-500-7	—	R52-53	R: 52/53 S: 61	
611-139-00	Reaction product of: C.I. Leuco Sulfur Black 1 with (3-chloro-2-hydroxypropyl)trimethylammonium chloride	424-510-1	—	Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)26-39-61	
611-141-00	4-[4-(3,5-dicarboxy-phenyl-	414-410-6	—	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39	

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	azo)phenylamino]-6-morpholin-4-yl-1,3,5-triazin-2-ylamino]phenylazo)isophthalic acid, mixed monosodium and diammonium salt					
611-142-00	Product-by-process definition polyazodyestuff obtained by coupling 4-[4-(1-amino-8-hydroxy-3,6-disulfo-2-naphthylazo)phenylsulfonylamino]benzenediazonium with a mixture of 4-carboxybenzenediazonium and diphenylamine-3-sulfo-4,4'-bisdiazonium, and further coupling of the obtained compounds with a mixture of naphth-2-ol and 3-aminophenol, sodium salts; sodium chloride	425-740-5	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61	
611-143-00	A9 mixture of: trisodium	428-260-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39	

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	2-(2-[ $\alpha$ -(2-carboxylato- $\kappa$ -O-4-sulfonatophenylazo)benzylidene]hydrazino- $\kappa$ -N')-6-(2,6-difluoropyrimidin-4-ylamino)-4-sulfonatophenolatocuprate (II); trisodium						
	2-(2-[ $\alpha$ -(2-carboxylato- $\kappa$ -O-4-sulfonatophenylazo)benzylidene]hydrazino- $\kappa$ -N')-6-(4,6-difluoropyrimidin-2-ylamino)-4-sulfonatophenolatocuprate (II)						
611-144-004	mixture of: 7-amino-3,8-bis-[4-(2-sulfoxyethylsulfonyl)phenylazo]-4-hydroxynaphthalene-2-sulfonic acid, Na/K salt; 7-amino-3-[4-(2-sulfoxyethylsulfonyl)phenylazo]-4-hydroxy-8-[4-(2-sulfoxyethylsulfonyl)-2-sulfophenylazo]naphthalene-2-sulfonic acid, Na/K salt; 7-amino-8-[4-(2-sulfoxyethylsulfonyl)-phenylazo]-4-	429-070-4214362-068	Xn; R41				Xi R: 41 S: (2-)22-26-39

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	hydroxy-3-[4-(2-sulfoxyethylsulfonyl)-2-sulfophenylazo]naphthalene-2-sulfonic acid, Na/K salt; 7-amino-3,8-bis-[4-(2-sulfoxyethylsulfonyl)-2-sulfophenylazo]-4-hydroxynaphthalene-2-sulfonic acid, Na/K salt					
611-145-00A X	mixture of: tetrasodium 3-(1,5-disulfonatonaphthalene-2-ylazo)-4-hydroxy-7-{4-chloro-6-[4-(2-sulfoxyethylsulfonyl)phenylamino]-1,3,5-triazine-2-ylamino}naphthalene-2-sulfonate; 3-(2,5-disulfophenylazo)-4-hydroxy-7-{4-chloro-6-[4-(2-sulfoxyethylsulfonyl)phenylamino]-1,3,5-triazine-2-ylamino}naphthalene-2-sulfonic acid, sodium salt	429-440-5	—	Xi; R41	Xi R: 41 S: (2-)22-26-39	
611-146-00A.5	mixture of: pentasodium 3-(4-(4-	430-070-1	—	N; R51-53	N R: 51/53 S: 61	

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(7-(2,4-diamino-5-sulfonato-3-(4-sulfonatophenylazo)phenylazo)-1-hydroxy-3-sulfatonaphthalen-2-ylazo)-2-sulfonatophenylamino)phenylazo)-4-hydroxy-6-(2-oxo-1-phenylcarbonylpropylazo)naphthalene-2-sulfonate; pentasodium							
6-((2,4-diamino-5-sulfonatophenylazo)-3-((4-((4-((7-((2,4-diamino-5-sulfonatophenylazo)-1-hydroxy-3-sulfatonaphthalen-2-yl)azo)phenyl)amino)-2-sulfonatophenyl)azo)-4-hydroxynaphthalene-2-sulfonate; pentasodium							
6-((2,4-diamino-5-sulfonato-3-((4-sulfonatophenylazo)phenyl)azo)-3-((4-((4-((1,7-dihydroxy-3-sulfatonaphthalen-2-yl)azo)-2-sulfonatophenyl)amino)phenyl)azo)-4-hydroxynaphthalene-2-sulfonate; hexasodium							
6-((2,4-diamino-5-sulfonatophenylazo)-3-((4-((4-((7-((2,4-diamino-5-sulfonato-3-((4-							

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	sulfonatophenyl)azo)phenyl)azo)-1-hydroxy-3-sulfonatophthalen-2-yl)azo)-2-sulfonatophenyl)amino)phenyl)azo)-4-hydroxynaphthalene-2-sulfonate					
611-147-00	06 Sodium, potassium, lithium 5-amino-3,6-bis(5-(4-chloro-6-(methyl-(2-methylaminoacetyl)amino)-1,3,5-triazin-2-ylamino)-2-sulfonatophenylazo)-4-hydroxynaphthalene-2,7-disulfonate	430-090-0	205764-9	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39	
611-148-00	06 mixture of: 2-(3-(2,6-dichloro-4-nitrophenylazo)carbazol-9-yl)ethanol; 2-(2-(3-(2,6-dichloro-4-nitrophenylazo)carbazol-9-yl)-ethoxy)ethanol; 3-(2,6-dichloro-4-nitrophenylazo)carbazol	429-590-1	—	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61	
611-149-00	02 (2-chloroacetoxy)ethyl 3-((4-(2,5-dichloro-4-fluorosulfonylphenylazo)-3-methylphenyl)ethylamino)propionate	427-570-7	193486-8	R43 R51-53	N R: 51/53 S: 61	
611-150-00	07 Lithium 2-[6-[7-[2-(carboxylato)phenylazo]-8-	440-460-3	—	Xi; R36 R52-53	Xi R: 36-52/53	

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	hydroxy-3,6-disulfonato-1-naphthylamino]-4-hydroxy-1,3,5-triazine-2-ylamino]benzoate				S: (2-)26-39-61		
611-151-0042	chrysoidine; 4-(phenylazo)benzene-1,3-diamine	207-803-7495-54-5		Muta. Cat. 3; R68 Xn; R22 Xi; R38 N; R50-53	Xn; N R: 22-38-68-50/53 S: (2-)23-26-36/37-46-60-61		
611-152-0048	chrysoidine monohydrochloride; 4-phenylazophenylene- $\beta$ -diamine monohydrochloride; [1] chrysoidine monoacetate; 4-(phenylazo)benzene-1,3-diamine monoacetate; [2] chrysoidine acetate; 4-(phenylazo)benzene-1,3-diamine acetate; [3] chrysoidine- <i>p</i> -dodecylbenzenesulfonate; dodecylbenzenesulfonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1); [4] chrysoidine dihydrochloride; 4-(phenylazo)benzene-1,3-diamine dihydrochloride; [5]	208-545-8532-82-1 [1] 278-290-575660-25 [2] 279-116-079234-33 [3] 264-409-863681-54 [4] 281-549-583968-67-6 [5] 282-432-184196-22-5 [6]	[1] [1] [2] [3] [4] [5] [6]	Muta. Cat. 3; R68 Xn; R22 Xi; R38-41 N; R50-53	Xn; N R: 22-38-41-68-50/53 S: (2-)23-26-36/37/39-46-60-61		



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	chrysoidine sulfate; bis[4-(phenylazo)benzene-1,3-diamine] sulfate [6]						
611-153-00	chrysoidine C <sub>10-14</sub> -alkyl derivatives and; benzenesulfonic acid, mono-C <sub>10-14</sub> -alkyl derivatives, compounds with 4-(phenylazo)-1,3-benzenediamine; [1] chrysoidine compound with dibutyl naphthalene sulfonic acid; dibutyl naphthalenesulfonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1) [2]	286-946-785407-90 [1] 304-236-894247-67 [2]	[1] [2]	Muta. Cat. 3; R68 Xn; R22 Xi; R38-41	Xn R: 22-38-41-68 S: (2-)23-26-36/37/39-46		
612-057-00	piperazine; [liquid]	203-808-3110-85-0		Repr. Cat. 3; R62-63 C; R34 R42/43	Xn; C R: 34-42/43-62-63 S: (1/2-)23-26-36/37/39-45		
612-122-00	hydroxylamine ... % [≤ 55 % in aqueous solution]	232-259-27803-49-8		R5 Carc. Cat. 3; R40 Xn; R21/22-48 Xi; R37/38-41 R43 N; R50	Xn; N R: 5-21/22-37/38-40-41-43-48/22-50 S: (2)26-36/37/39-46-61		

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612-169-003	(N-methyl-N-phenylhydrazine)sulfate	423-170-1	618-26-8	F; R11 T; R48/25 Xn; R22 Xi; R41 R43 N; R50-53	F; T; N R: 11-22-41-43-48/25-50/53 S: (1/2-)22-26-33-36/37/39-45-60-61		
612-203-007	C <sub>7-10</sub> alkyl dimethyl hydroxyethyl ammoniumchloride (chain < C <sub>8</sub> : <3 %, chain = C <sub>8</sub> : 15 %-70 %, chain = C <sub>10</sub> : 30 %-85 %, chain > C <sub>10</sub> : <3 %)	417-360-3	—	Xn; R21/22 Xi; R38	Xn R: 21/22-38 S: (2-)25-36/37		
612-208-004	methylbenzene-1,2-diammonium hydrogen phosphate	424-460-0	—	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)22-25-36/37-61		
612-216-008	amino-1-cyanamino-2,2-dicyanoethylene, sodium salt	425-870-2	19450-38	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
612-219-002	hydroxy-3-(3,4-dimethyl-9-oxo-10-thiaanthracen-2-yloxy)propyl)trimethylammonium chloride	402-200-7	—	R52-53	R: 52/53 S: 61		
612-220-00X	N-nitro-N-(3-methyl-3,6-dihydro-2H-1,3,5-	431-060-1	153719-38	Xn; R22 R43 R52-53	Xn R: 22-43-52/53 S: (2-)22-24-37-61		

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	oxadiazin-4-yl)amine						
612-221-00-5	amino-4-(trifluoromethyl)benzenethiol hydrochloride	429-560-84274-38-8			C; R34 Xn; R20/21/22/24/25/26/27/28/29/30/31/32/33/34-43-48/22-50 R43 N; R50	C; N R: S: (1/2-)26-36/37/39-45-61	
612-222-00-1	(3-(4-fluorophenoxy)propyl)-3-methoxy-4-piperidinamine	425-080-8104860-26			Xn; R21/22-48/22 Xi; R41 N; R50-53	Xn; N R: S: (2-)26-36/37/39-60-61	
612-223-00-6	benzyl-N-ethyl-(4-(5-nitrobenzo[c]isothiazol-3-ylazo)phenyl)amine	425-300-2186450-73			R43 R53	Xi R: 43-53 S: (2-)22-24-37-61	
612-224-00-1	N,N,N,N-tetrakis{4-[(1,4-dimethylpentylamino)phenyl]-1,3,5-triazine-2,4,6-triamine	426-150-0121246-28			R43 N; R50-53	Xi; N R: S: (2-)24-37-60-61	
612-225-00-7	7,7,10-tetraazacyclododecane	425-450-9294-90-6			C; R34 Xn; R21/22 N; R50-53	C; N R: S: (1/2-)22-26-36/37/39-45-60-61	
612-226-00-2	2'-phenoxyethoxy)propylamine	427-870-86903-18-0			Xn; R22 Xi; R38-41 R52-53	Xn R: S: (2-)23-26-37/39-61	
612-227-00-8	benzyl-N-(2-(2-methoxyphenoxy)ethyl)amine hydrochloride	428-290-8120606-08			Xn; R22 Xi; R41 N; R50-53	Xn; N R: S: (2-)22-26-39-60-61	
612-228-00-3	mixture of: N-(3-(trimethoxysilyl)propyl)ethylenediamine; N-benzyl-N-(3-(3-(trimethoxysilyl)propyl)ethylenediamine;	414-340-6—			R10 Xn; R20/21/22/24/25/26/27/28/29/30/31/32/33/34-43-48/22-50 Xi; R41 R43 R52-53	Xn R: S: (2-)26-36/37/39-61	168/20/21/22-41-43-68/20/21/22-52/53

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	N-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N'-bis-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N,N'-tris-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N-bis-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine						
612-229-00-09	panipyrin; 4-methyl-N-phenyl-6-(1-propynyl)-2-pyrimidinamine	—	110235-47	Carc. Cat. 3; R40 N; R50-53	Xn; N R: 40-50/53 S: (2-)36/37-46-60-61		
612-230-00-04	N,N'-bis(cocoyl-2-oxypropyl)-N,N'-dibutylammonium bromide	431-530-4	—	C; R35 R43 N; R50-53	C; N R: 35-43-50/53 S: (1/2-)26-28-36/37/39-45-60-61		
612-231-00-X	((C <sub>12-18</sub> )-acylamino)-N-(2-((2-hydroxyethyl)amino)-2-oxoethyl)-N,N'-dimethyl-1-propanaminium chloride	427-370-1	164288-56	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
612-232-00-5	mixture of: triisopropanolamine salt of 1-amino-4-(3-propionamidoanilino)anthraquinone-2-sulfonic acid; triisopropanolamine salt of 1-amino-4-	430-410-9	186148-38	R52-53	R: 52/53 S: 61		

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	[3,4-dimethyl-5-(2-hydroxyethylaminosulfonyl)anilino]anthraquinone-2-sulfonic acid						
612-237-00-2	2-hydroxylammonium hydrogensulfate; hydroxylamine sulfate (1:1)	233-154-4	10046-00	E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50	E; Xn; N R: 2-21/22-36/38-40-43-48/22-50 S2 (2-)36/37-61		
613-161-00-2	2,4-diamino-6-hydroxymethylpteridinehydrobromide	430-620-076	145-91	Xn; R48/22 R43 R52-53	Xn R: 43-48/22-52/53 S: (2-)22-36/37-61		
613-162-00-6	( <i>trans</i> )-1-((7-ammonio-2-carboxylato-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl)methyl)pyridinium iodide	423-260-010	0988-63	Muta. Cat. 3; R68 R43 N; R51-53	Xn; N R: 43-68-51/53 S: (2-)36/37-61		
613-187-00-4	2-amino-5-cyano-6-[2-(2-hydroxyethoxy)ethylamino]-4-methylpyridin-3-ylazo)-3-methyl-2,4-dicarbonitrilethiophene	410-530-8	—	R43	Xi R: 43 S: (2-)24-37		
613-192-00-1	1-benzyl-exo-6-nitro-2,4-dioxo-3-aza- <i>cis</i> -bicyclo[3.1.0]hexane	426-750-215	1860-15	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
613-198-00-4	4-amino-4-dimethylamino-6-	415-500-8	145963-84	Xn; R22-48/22 R52-53	Xn R: 22-48/22-52/53		

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	trifluoroethoxy-1,3,5-triazine					S: (2-)22-36-61	
613-229-00-1	acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine	411-930-5	106917-3	Xi; R38 R43 N; R50-53	Xi; N R: 38-43-50/53 S: (2-)24-37-60-61		
613-231-00-6	3,6-diamino-3-((pyridine-3-yl)azo)pyridine	421-430-9	28365-08	Xn; R22-48/22 N; R51-53	Xn; N R: 22-48/22-51/53 S: (2-)22-36-61		
613-232-00-8	(benzo[ <i>b</i> ]thien-2-yl)-5,6-dihydro-1,4,2-oxathiazine-4-oxide	431-030-6	163269-3	T; R23 Xn; R48/22 Xi; R41 N; R50-53	T; N R: 23-41-48/22-50/53 S: (1/2-)26-36/39-45-57-60-61		
613-234-00-1	imidazo[1,2- <i>b</i> ]pyridazin hydrochloride	431-510-5	18087-70	Xn; R22 Xi; R36	Xn R: 22-36 S: (2-)26		
613-235-00-4	4-dihydro-2,2-dimethyl-1 <i>H</i> -perimidine	424-060-6	6364-17-6	Xn; R22-48/22 R43 N; R50-53	Xn; N R: 22-43-48/22-50/53 S: (2-)28-36/37-60-61		
613-236-00-X	chloro-3-trifluoromethylpyridine	424-520-6	65753-47	T; R24/25-48 C; R34 R52-53	T R: 24/25-34-48/25-52/53 S: (1/2-)23-26-36/37/39-45-61		
613-237-00-5	<i>trans</i> -butyl-3-(3-dodecylsulfonyl)propyl-7 <i>H</i> -1,2,4-triazolo[3.4 <i>b</i> ][1,3,4]thiadiazine	424-950-4	133949-9	R53	R: 53 S: 61		
613-238-00-0	sodium 2-[[4-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]phenyl]sulfonyl]ethyl sulfate	430-890-1	81992-66	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)22-24-37-60-61		

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613-239-00-63-	(methylamino)propyl]-1H-benzimidazole	425-760-464137-52	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
613-241-00-72-	H-tetrazol-5-yl)pyridine	426-810-83250-74-6	Xi; R41	Xi R: 41 S: (2-)22-26-39		
613-242-00-2-	Reaction products of 3,10-bis((2-aminopropyl)amino)-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid with 2-amino-1,4-benzenedisulfonic acid, 2-((4-aminophenyl)sulfonyl)ethyl hydrogen sulfate and 2,4,6-trifluoro-1,3,5-triazine, sodium salts	426-860-0191877-09	Xi; R41	Xi R: 41 S: (2-)22-26-39		
613-243-00-81-	(1,6-hexamethylenebis(formylimino))bis(2,2,6,6-tetramethyl-1-oxypiperidine)	427-350-0182235-140	N R51-53	N R: 51/53 S: 61		
613-244-00-7-	6,7-dichloro-4-hydroxyquinoline	427-420-021873-52	N; R51-53	N R: 51/53 S: 61		
613-245-00-9	fluoro-6-trifluoromethylpyridine	428-100-394239-04	R10 Xn; R20/22 R52-53	Xn R: 10-20/22-52/53 S: (2-)16-61		
613-246-00-4	hydroxymethyl-3-methyl-4-(2,2,2-trifluoroethoxy)pyridine	428-200-7103577-60	R52-53	R: 52/53 S: 61		

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613-247-00-X	(2-methoxy-4-methoxycarboxybenzyl)-5-nitroindole	428-910-7107786-36	R53	R: 53 S: 61		
613-248-00-4	5-dimethyl-1H-pyrazole	429-130-12820-37-3	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)26-39-61		
613-249-00-02	(2-hydroxyethyl)-1H-pyrazol-4,5-diyl diammonium sulfate	429-300-3155601-30	Xi; R41 R43 N; R51-53	Xi; N R: 41-43-51/53 S: (2-)24-26-37/39-61		
613-250-00-A-6	mixture of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine; methyl carbonato-N-ethyl-2-isopropyl-1,3-oxazolidine; 2-isopropyl-N-hydroxyethyl 1,3-oxazolidine	429-990-6—	Xi; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)24-26-37/39-61		
613-251-00-00-1	[(1-methylpyrrolidin-2-yl)methyl]-5-[2-(phenylsulfonyl)ethenyl]-1H-indole	430-560-5180637-89	Xn; R22-48/22 Xi; R41 R43	Xn R: 22-41-43-48/22 S: (2-)26-36/37/39		
613-253-00-2	2-dialkyl-4-hydroxymethyl-1,3-dioxolane; reaction products with ethylene oxide (alkyl is C <sub>1-12</sub> )	430-580-4—	R19 Xi; R38 N; R51-53	Xi; N R: 19-38-51/53 S: (2-)37-61		



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	and the sum to C <sub>13</sub> , average degree of ethoxylation is 3.5)						
613-254-008	Chlorfenuron (ISO); 1-(2-chloro-4-pyridyl)-3-phenylurea	—	68157-60	Carc. Cat. 3; R40 N; R51-53	Xn; N R: 40-51/53 S: (2-)36/37-46-61		
613-255-003	mixture of isomers of: sodium [(2-hydroxyethylsulfamoyl) {[2-(2-piperazin-1-ylethylamino)ethylsulfamoyl] [2-(4-aminoethylpiperazine-1-yl)ethylsulfamoyl] (sulfamoyl)} (sulfonatophthalocyaninato)]copper(II)	424-270-8	—	Xi; R41	Xi R: 41 S: (2-)26-39		
613-256-009	5-anhydro thymidine	425-810-5	38313-48	R52-53	R: 52/53 S: 61		
613-257-004	phthalimidoethyl N-[4-(2-cyano-4-nitrophenylazo)phenyl]-N-methyl-β-alaninate	426-400-9	170222-39	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
613-258-00A X	mixture of: 4-chloro-7-methylbenzotriazole sodium salt; 4-chloro-5-	427-730-6	202420-04	C R34 R52-53	C R: 34-52/53 S: (1/2-)26-28-36/37/39-45-61		

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	<p>methylbenzotriazole sodium salt; 5-chloro-4-methylbenzotriazole sodium salt</p>						
613-259-00-5	<p>mixture of: [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1<i>R</i>)-<i>cis</i>-chrysanthemate; [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1<i>R</i>)-<i>trans</i>-chrysanthemate</p>	428-790-672963-72		Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61		
613-260-00-0	<p>4-(3-chlorophenyl)-6-[(4-chlorophenyl)hydroxy(1-methyl-1<i>H</i>-imidazol-5-yl)methyl]-1-methyl-2(1<i>H</i>)-quinolin</p>	430-730-9—		Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)22-26-39-60-61		
613-261-00-6	<p>pyrazole-1-carboxamide monohydrochloride</p>	429-520-14023-02-3		Xn; R22-48/22 Xi; R41 R43 R52-53	Xn R: 22-41-43-48/22-52/53 S: (2-)22-26-36/37/39-61		
613-262-00-4	<p>sodium (E)-1,2-bis-(4-(4-methylamino-6-(4-methylcarbamoylphenylamino)-1,3,5-triazin-2-ylamino)phenyl-2-sulfonato)ethene</p>	427-310-2180850-95		Xi; R41	Xi R: 41 S: (2-)26-39		
613-263-00-7	<p>inosodium 3-</p>	429-570-2—		R43	Xi R: 43		

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	cyano-5-fluoro-6-hydroxypyridine-2-olate					S: (2-)24-37	
613-265-00-8	Benuron methyl (ISO); 2-[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoylsulfamoyl]benzoic acid	—	101200-48043	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-46	C ≥ 1 %: Xi, N; R43-50/53 0,25 % C60-61 <1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-266-00-3	chloro-5-chloromethylthiazole	429-830-5	105827-916	R24 C; R34 Xn; R22 R43 N; R51-53	T; N R: 22-24-34-43-51/53 S: (1/2-)26-36/37/39-45-61		
613-267-00-9	Chlormethoxam (ISO); 3-(2-chloro-thiazol-5-ylmethyl)-5-methyl[1,3,5]oxadiazinan-4-ylidene-N-nitroamine	428-650-4	153719-233	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 2,5 % ≤ C < 25 %: N; R50/53 0,25 % ≤ C < 2,5 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
613-268-00-4	(S-cis)-6-benzyl-octahydropyrrolo[3.4-b]pyridine	425-930-8	151213-397	R34 Xn; R20/22-48 N; R51-53	C; N R: 22-34-48/22-51/53 S: (1/2-)26-36/37/39-45-61		

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613-269-00-X	thiazolidinylidene	427-720-126364-65	—	Xn; R22-48/22 R52-53	Xn R: 22-48/22-52/53 S: (2-)22-36-61	
613-270-00-5	amino- <i>N</i> -(2,6-dichloro-3-methylphenyl)-1 <i>H</i> -1,2,4-triazole-3-sulfonamide	428-150-6113171-13	—	R52-53	R: 52/53 S: 61	
613-271-00-0	isofosulfuron (ISO) (containing ≤ 0,02 % AMTT); 1-[4-methoxy-6-(trifluoromethyl)-1,3,5-triazin-2-yl]-3-[2-(trifluoromethyl)benzenesulfonyl]urea (containing ≤ 0,02 % AMTT)	—	142469-14	R51 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-40-60-61	C ≥ 2,5 %: Xi, N; R43-50/53 C < 2,5 %: Xi, N; R43-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53
613-272-00-6	flaclostrobin (ISO); methyl <i>N</i> -{2-[1-(4-chlorophenyl)-1 <i>H</i> -pyrazol-3-yl]oxymethyl}phenyl} ( <i>N</i> -methoxy)carbamate	—	—	T; R23 Xi; R38 N; R50-53	T; N R: 23-38-50/53 S: (1/2-)45-60-61-63	C ≥ 25 %: N; R23-38-50/53 C < 25 %: Xn, N; R20-38-50/53 3 % ≤ C < 20 %: Xn, N; R20-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53

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						0,0025 % ≤ C < 0,025 %: R52/53
613-273-00-6	1,4-dihydro-3-methyl-5-((2-phenylthio)thiazol-5-ylmethyl)-[4H]-1,3,5-oxadiazinan-4-ylidene-N-nitroamine	427-600-9192439-4686			N R: 51/53 S: 61	
613-274-00-6	1,1-dichloro-1-fluoropyridiniumtetrafluoroborate	427-400-1140623-8908			C; N R: 22-34-43-50/53 S: (1/2-)26-36/37/39-45-60-61	
613-275-00-22	2-(2-chloroethyl)-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one monohydrochloride	424-530-093076-0300			T; N R: R68/21-48/22-41-43-48/22-68/21-51/53 S: (1/2-)22-26-36/37/39-45-61	
613-276-00-82	1-(2-chlorophenyl)-1,2-dihydro-5H-tetrazol-5-one	426-110-298377-3500			Xi R: 43-52/53 S: (2-)24/25-37-61	
613-277-00-43	(6-diethylamino-2-methylpyridin-3-yl)imino-4,5-dihydro-3-methyl-1-(4-methylphenyl)-1H-pyrazol-5-one	427-070-9—			R: 53 S: 61	
613-278-00-39	(3-aminophenyl)pyridin-3-ylmethanone	428-230-079568-0600			Xn; N R: 48/22-50/53 S: (2-)22-36-60-61	
613-279-00-4	1-ethyl-2,3-	424-380-643057-6800			Xn; N R22-48/22	

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	dihydro-2-methyl-1 <i>H</i> -perimidine				N; R50-53	R: 22-48/22-50/53 S: (2-)36/37-60-61	
615-033-00	Reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097)	430-980-9	—		R53	R: 53 S: 61	
615-034-00	Reaction product of diphenylmethanediisocyanate, octylamine, 4-ethoxyaniline and ethylenediamine (1:0,37:1,53:0,05)	430-750-8	—		R53	R: 53 S: 61	
615-035-00	Reaction product of diphenylmethanediisocyanate, octylamine and oleylamine (molar ratio 1:1.86:0.14)	430-930-6	122886-5	5R53	R53	R: 53 S: 61	
615-036-00	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine, oleylamine and 4-ethoxyaniline (molar	430-940-0	—		R53	R: 53 S: 61	

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	ratio 4:1:7:1:2)						
615-037-00	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine and oleylamine (molar ratio 4:1:9:1)	430-950-5	—	R53	R: 53 S: 61		
615-038-00	Reaction product of toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate) and aniline (molar ratio 1:2)	430-960-1	—	R53	R: 53 S: 61		
615-039-00	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine,	430-970-4	—	R53	R: 53 S: 61		

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	oleylamine and 4-ethoxyaniline (molar ratio 3.88:1:6.38:0.47:2.91)						
616-107-00-6	imidon ethyl (ISO); ethyl (Z)-2-chloro-3-[2-chloro-5-(cyclohex-1-ene-1,2-dicarboximido)phenyl]acrylate	—	142891-2007	Clrc. Cat 3; R40 R43 N; R50-53	Xn; N R: 40-43-50/53 S: (2-)24-37-46-60-61		
616-122-00-8	ethyl neodecanamide	414-460-9	105726-67	Xn; R22	Xn R: 22 S: (2-)		
616-131-00-7	aminocyclopentanecarboxamide	422-950-9	17193-28	T; R48/25 Xn; R22 Xi; R41	T R: 22-41-48/25 S: (1/2-)22-26-36/39-45		
616-136-00-4	Reaction product of cocoalkyldiethanolamides and cocoalkylmonoglycerides and molybdenumtrioxide (1.75-2.2:0.75-1.0:0.1-1.1)	430-380-7	—	N; R51-53	N R: 51/53 S: 61		
616-137-00-X	dichloroacetyl-1-oxa-4-azaspiro[4.5]decane	401-130-4	71526-07	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
616-138-00-5	Benzoic acid, N-trans-butyl-N'-(4-chlorobenzoyl)hydrazide	431-600-4	112226-61	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
616-139-00-3	(3S,4aS,8aS)-N-trans-butyldecahydro-3-isoquinolinecarboxamide	420-380-5	136465-8	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53		



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					S: (2-)22-26-39-61		
616-140-00-01	<i>N,N'</i> - (methylenedi-4,1- phenylene)bis[ <i>N'</i> - (4- methylphenyl)urea]	429-380-1	133336-92	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
616-141-00-01	okamide (ISO); ( <i>RS</i> )-3,5- dichloro- <i>N</i> - (3- chloro-1- ethyl-1- methyl-2- oxopropyl)- <i>p</i> - toluamide	—	156052-68	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-40-60-61	C ≥ 2,5 %: Xi, N; R43-50/53 < 2,5 %: Xi, N; R43-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
616-144-00-08	8- dichloro- <i>N</i> - [5- chloro-4- [2-[4- dodecyloxyphenylsulfonyl]butyramido]-2- hydroxyphenyl]benzamide	431-130-1	—	R53	R: 53 S: 61		
616-145-00-01	ethoxamide (ISO); 2- chloro- <i>N</i> - (2- ethoxyethyl)- <i>N</i> - (2- methyl-1- phenylprop-1- enyl)acetamide	—	106700-29	Xn; R22 R43 N; R50-53	Xn; N R: 22-43-50/53 S: (2-)24-37-40-60-61	C ≥ 25 %: Xn, N; R22-43-50/53 < 25 %: Xi, N; R43-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,0025 % ≤ C <	

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						0,025 %: R52/53	
616-146-00-92-X	2-(2-methoxy-5-octadecanoylamino-phenyl)-2-(3-benzyl-2,5-dioxoimidazolidin-1-yl)-4,4-dimethyl-3-oxopentanoic acidamide	431-330-7142776-95R53				R: 53 S: 22-61	
616-147-00-4	4-methyl-4-(2-methyl-2H-tetrazol-5-yl)-1H-pyrazole-5-sulfonamide	424-160-1139481-22Xn; R22 R52-53				Xn R: 22-52/53 S: (2-)61	
616-148-00-X	[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide	424-550-184245-12Carc. Cat. 2; R45 Muta. Cat. 2; R46 Repr. Cat. 2; R60-61				T R: 45-46-60-61 S: 53-45	
616-150-00-2R,3S)-N-	(3-amino-2-hydroxy-4-phenylbutyl)-N-isobutyl-4-nitrobenzenesulfonamide hydrochloride	425-260-6—				Xn; R48/22 Xi; R41 R43 N; R51-53	Xn; N R: 41-43-48/22-51/53 S: (2-)22-26-36/37/39-61
616-151-00-42-X	2-amino-4,6-dichloropyrimidin-5-yl)formamide	425-650-6171887-03Xn; R22 Xi; R41 R43 R52-53				Xn R: 22-41-43-52/53 S: (2-)24-26-37/39-61	
616-152-00-44-X	4-(4-fluorophenyl)-2-(2-methyl-1-oxopropyl)-4-oxo-3,N-diphenylbutanamide	425-850-3125971-96R53				R: 53 S: 61	

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616-153-00-7	methyl-3-oxo- <i>N</i> -phenyl-2-(phenylmethylene)pentanamide	425-860-8125971-57	R53 N; R51-53	Xi; N R: 43-51/53 S: (2-)22-24-37-61		
616-154-00-2	dichloro- <i>N</i> -[5-chloro-4-[2-[4-(hexadecyloxy)phenylsulfonyl]butyramido]-2-hydroxyphenyl]benzamide	431-110-0—	R53	R: 53 S: 61		
616-155-00-8	<i>N,N,N'</i> -tetracyclohexyl-1,3-benzenedicarboxamide	431-040-0104560-40	R50-53	N R: 50/53 S: 60-61		
616-156-00-82	chloro-6-cyano-4-nitrophenylazo)-4-methoxy-3-[ <i>N</i> -(methoxycarbonylmethyl)- <i>N</i> -(1-methoxycarbonyl)ethyl]amino]acetanilide	430-500-8204277-61	R53	R: 53 S: 61		
616-157-00-9	amino-4-hydroxy- <i>N</i> -(3-isopropoxypropyl)benzenesulfonamide hydrochloride	427-780-9114565-70	Xn; R22 Xi; R41 N; R50-53	Xn; N R: 22-41-50/53 S: (2-)26-39-60-61		
616-158-00-44	cyano-3-trifluoromethylphenyl]methacrylamide	427-880-290357-53	Xn; R48/22 N; R51-53	Xn; N R: 48/22-51/53 S: (2-)36-61		
616-160-00-3'	azobis[ <i>N</i> -(2-hydroxyethyl)-2-methylpropionamide]	429-090-361551-69	R43 R52-53	Xi R: 43-52/53 S: (2-)12-15-24-37-61		
616-161-00-0	dichloro-5-hydroxyacetanilide	429-110-067669-19	R52-53	R: 52/53 S: 61		
616-162-00-6	stearic acid monoisopropanolamide	431-540-9—	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)37-61		

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616-163-00-4	4'-methylenebis[N-(4-chlorophenyl)-3-hydroxynaphthalene-2-carboxamide]	430-350-3	192463-8	R53	R: 53 S: 61		
617-021-00-4	methylethylketone peroxide trimer	429-320-2	—	E; R2 O; R7 Xn; R65 Xi; R38 R43	E; Xn R: 2-7-38-43-65 S: (2-)3/7-14-23-36/37/39-62		4'

## ANNEX 1H

The entries in Annex I with the following entry numbers are deleted:

607-443-00-4, 607-472-00-2, and 606-080-00-9.

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- (1) [OJ L 196, 16.8.1967, p. 1.](#)
- (2) [OJ L 226, 22.8.2001, p. 5.](#)