

**Status:** Point in time view as at 02/03/2017.

**Changes to legislation:** There are currently no known outstanding effects for the Regulation (EC) No 1907/2006 of the European Parliament and of the Council, ANNEX XVII Table 2: rows 251 - 300. (See end of Document for details)

## [<sup>X1</sup>ANNEX XVII

### [<sup>F1</sup>RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES]

#### **Editorial Information**

- X1** Substituted by [Corrigendum to Regulation \(EC\) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals \(REACH\), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation \(EEC\) No 793/93 and Commission Regulation \(EC\) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC \(Official Journal of the European Union L 396 of 30 December 2006\).](#)

#### **Textual Amendments**

- F1** Substituted by [Commission Regulation \(EC\) No 552/2009 of 22 June 2009 amending Regulation \(EC\) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals \(REACH\) as regards Annex XVII \(Text with EEA relevance\).](#)

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## Appendix 1

[<sup>F1</sup>Entry 28 — Carcinogens: category 1A (Table 3.1)/category 1 (Table 3.2)]

ANNEX XVII Table 2: rows 251 - 300

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |            |                        |
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| 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 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.) | 649-128-00-4 | 270-766-0 | 68477-84-9 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), dry sour, gas-concentration-unit-off; Refinery gas (The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulphide and hydrocarbons                                                                                                                                                                                                                          | 649-129-00-X | 270-774-4 | 68477-92-9 | [ <sup>F1</sup> H, ] K |

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| having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .)                                                                                                                                                                                                                                                                                                                            |              |           |            |                        |
| Gases (petroleum), gas concentration reabsorber distillation; 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 sulphide and hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>3</sub> .) | 649-130-00-5 | 270-776-5 | 68477-93-0 | [ <sup>F1</sup> H, ] K |
| 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,                                                                                                                                                                                                                                     | 649-131-00-0 | 270-779-1 | 68477-96-3 | [ <sup>F1</sup> H, ] K |

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| nitrogen, and methane with small amounts of C <sub>2</sub> hydrocarbons.)                                                                                                                                                                                                                                                          |              |           |            |                        |
| Gases (petroleum), hydrogen-rich; Refinery gas (A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C <sub>2</sub> hydrocarbons.)                                                                 | 649-132-00-6 | 270-780-7 | 68477-97-4 | [ <sup>F1</sup> H, ] K |
| 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 dioxide and hydrocarbons having carbon numbers predominantly in | 649-133-00-1 | 270-781-2 | 68477-98-5 | [ <sup>F1</sup> H, ] K |

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| the range of C <sub>1</sub> through C <sub>5</sub> .)                                                                                                                                                                                                                                                                                                                  |              |           |            |                        |
| 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 sulphide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>5</sub> .) | 649-134-00-7 | 270-783-3 | 68478-00-2 | [ <sup>F1</sup> H, ] K |
| 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                                                                                                 | 649-135-00-2 | 270-784-9 | 68478-01-3 | [ <sup>F1</sup> H, ] K |

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| the range of C <sub>1</sub> through C <sub>5</sub> .)                                                                                                                                                                                                                                                                                                         |              |           |            |                        |
| Gases (petroleum), reforming hydrotreater; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range C <sub>3</sub> through C <sub>5</sub> .) | 649-136-00-8 | 270-785-4 | 68478-02-4 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide,                                                                                         | 649-137-00-3 | 270-787-5 | 68478-03-5 | [ <sup>F1</sup> H, ] K |

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| nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>2</sub> through C <sub>5</sub> .)                                                                                                                                                                                                                       |              |           |            |                       |
| 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 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> .) | 649-138-00-9 | 270-788-0 | 68478-04-6 | [ <sup>1</sup> H, ] K |
| Gases (petroleum), thermal cracking distillation; Refinery gas (A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulphide, carbon                                                                                                                                                   | 649-139-00-4 | 270-789-6 | 68478-05-7 | [ <sup>1</sup> H, ] K |

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| monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .)                                                                                                                                                                                                   |              |           |            |                        |
| 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> .) | 649-140-00-X | 270-805-1 | 68478-25-1 | [ <sup>F1</sup> H, ] K |
| Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers                                                                                            | 649-141-00-5 | 270-807-2 | 68478-27-3 | [ <sup>F1</sup> H, ] K |



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| predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .)                                                                                                                                                                                                                                                                                               |              |           |            |                        |
| Tail gas (petroleum), catalytic reformed naphtha stabiliser; Refinery gas (A complex combination of hydrocarbons obtained from the stabilisation of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> .)                                                | 649-142-00-0 | 270-808-8 | 68478-28-4 | [ <sup>F1</sup> H, ] K |
| Tail 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> .) | 649-143-00-6 | 270-809-3 | 68478-29-5 | [ <sup>F1</sup> H, ] K |

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| Tail gas (petroleum), hydrodesulphurised straight-run naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from hydrodesulphurisation 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> .) | 649-144-00-1 | 270-810-9 | 68478-30-8 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), catalytic reformed straight-run naphtha stabiliser overheads; Refinery gas (A complex combination 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.)                                          | 649-145-00-7 | 270-999-8 | 68513-14-4 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), reformer effluent                                                                                                                                                                                                                                                                                                                | 649-146-00-2 | 271-003-4 | 68513-18-8 | [ <sup>F1</sup> H, ] K |

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| high-pressure flash drum off;<br>Refinery gas<br>(A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.)                                |              |           |            |                        |
| Gases (petroleum), reformer effluent low-pressure flash drum off;<br>Refinery gas<br>(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.) | 649-147-00-8 | 271-005-5 | 68513-19-9 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), oil refinery gas distillation off;<br>Refinery gas<br>(A complex combination separated by distillation of a gas stream containing hydrogen, carbon                                                                                                                    | 649-148-00-3 | 271-258-1 | 68527-15-1 | [ <sup>F1</sup> H, ] K |

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| <p>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>Gases (petroleum), benzene unit hydrotreater depentaniser 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 depentanising. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon</p> | 649-149-00-9 | 271-623-5 | 68602-82-4 | [ <sup>1</sup> H, ] K |

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| numbers predominantly in the range of C <sub>1</sub> through C <sub>6</sub> . It may contain trace amounts of benzene.)                                                                                                                                                                                                                                                                                            |              |           |            |                        |
| Gases (petroleum), secondary absorber off, fluidised catalytic cracker overheads fractionator; Refinery gas (A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidised catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .) | 649-150-00-4 | 271-625-6 | 68602-84-6 | [ <sup>F1</sup> H, ] K |
| Petroleum products, refinery gases; Refinery gas (A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane and propane.)                                                                                                                                                                                                                                           | 649-151-00-X | 271-750-6 | 68607-11-4 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), hydrocracking                                                                                                                                                                                                                                                                                                                                                                                   | 649-152-00-5 | 272-182-1 | 68783-06-2 | [ <sup>F1</sup> H, ] K |

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| low-pressure separator;<br>Refinery gas<br>(A complex combination obtained by the liquid-vapour separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .) |              |           |            |                        |
| Gases (petroleum), refinery;<br>Refinery gas<br>(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> .)                                                       | 649-153-00-0 | 272-338-9 | 68814-67-5 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), platformer products separator off;<br>Refinery gas<br>(A complex combination obtained from the chemical reforming of                                                                                                                                                                                 | 649-154-00-6 | 272-343-6 | 68814-90-4 | [ <sup>F1</sup> H, ] K |

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| 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> .)                                                                                                                                                                                                                                                               |              |           |            |                        |
| Gases (petroleum), hydrotreated sour kerosine depentaniser stabiliser off; Refinery gas (The complex combination obtained from the depentaniser stabilisation of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulphide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>5</sub> .) | 649-155-00-1 | 272-775-5 | 68911-58-0 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas (A complex combination                                                                                                                                                                                                                                                                                                                                                    | 649-156-00-7 | 272-776-0 | 68911-59-1 | [ <sup>F1</sup> H, ] K |

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| obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily 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> .) |              |           |            |                        |
| Gases (petroleum), distillate unifier desulphurisation stripper off; Refinery gas (A complex combination stripped from the liquid product of the unifier desulphurisation process. It consists of hydrogen sulphide, methane, ethane, and propane.)                                                                               | 649-157-00-2 | 272-873-8 | 68919-01-7 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), fluidised catalytic cracker fractionation off; Refinery gas (A complex combination produced by the fractionation of the overhead product of the fluidised                                                                                                                                                      | 649-158-00-8 | 272-874-3 | 68919-02-8 | [ <sup>F1</sup> H, ] K |



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| <p>catalytic cracking process. It consists of hydrogen, hydrogen sulphide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>5</sub>.)</p>                                                                       |              |           |            |                        |
| <p>Gases (petroleum), fluidised catalytic cracker scrubbing secondary absorber off; Refinery gas (A complex combination produced by scrubbing the overhead gas from the fluidised catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.)</p> | 649-159-00-3 | 272-875-9 | 68919-03-9 | [ <sup>F1</sup> H, ] K |
| <p>Gases (petroleum), heavy distillate hydrotreater desulphurisation stripper off; Refinery gas (A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulphurisation process. It consists of hydrogen,</p>                       | 649-160-00-9 | 272-876-4 | 68919-04-0 | [ <sup>F1</sup> H, ] K |

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| hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .)                                                                                                                    |              |           |            |                        |
| Gases (petroleum), platformer stabiliser 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.)     | 649-161-00-4 | 272-880-6 | 68919-07-3 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), preflash tower off, crude distillation; Refinery gas (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 | 649-162-00-X | 272-881-1 | 68919-08-4 | [ <sup>F1</sup> H, ] K |

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| the range of C <sub>1</sub> through C <sub>5</sub> .)                                                                                                                                                                                                              |              |           |            |                        |
| 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 numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .) | 649-163-00-5 | 272-884-8 | 68919-11-9 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), unifiner stripper off; Refinery gas (A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.)                                                                                                   | 649-164-00-0 | 272-885-3 | 68919-12-0 | [ <sup>F1</sup> H, ] K |
| Tail gas (petroleum), catalytic hydrodesulphurised naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the hydrodesulphurisation of naphtha. It consists of hydrogen, methane, ethane, and propane.)                              | 649-165-00-6 | 273-173-5 | 68952-79-4 | [ <sup>F1</sup> H, ] K |

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| Tail gas (petroleum), straight-run naphtha hydrodesulphuriser; Refinery gas (A complex combination obtained from the hydrodesulphurisation 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> .)                                                                                                 | 649-166-00-1 | 273-174-0 | 68952-80-7 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), sponge absorber off, fluidised catalytic cracker and gas oil desulphuriser overhead fractionation; Refinery gas (A complex combination obtained by the fractionation of products from the fluidised catalytic cracker and gas oil desulphuriser. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .) | 649-167-00-7 | 273-269-7 | 68955-33-9 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), crude distillation                                                                                                                                                                                                                                                                                                                                                                     | 649-168-00-2 | 273-563-5 | 68989-88-8 | [ <sup>F1</sup> H, ] K |

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| and catalytic cracking;<br>Refinery gas (A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulphide, 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> .) |              |           |            |                        |
| Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas (A complex combination produced by desulphurisation of gas oils with diethanolamine. It consists predominantly of hydrogen sulphide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>5</sub> .)                | 649-169-00-8 | 295-397-2 | 92045-15-3 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), gas oil hydrodesulphurisation                                                                                                                                                                                                                                                                                            | 649-170-00-3 | 295-398-8 | 92045-16-4 | [ <sup>F1</sup> H, ] K |

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| effluent;<br>Refinery gas<br>(A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .)                   |              |           |            |                        |
| Gases (petroleum), gas oil hydrodesulphurisation purge; Refinery gas<br>(A complex 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> .) | 649-171-00-9 | 295-399-3 | 92045-17-5 | [ <sup>F1</sup> H, ] K |
| Gases (petroleum), hydrogenator                                                                                                                                                                                                                                                                                                                      | 649-172-00-4 | 295-400-7 | 92045-18-6 | [ <sup>F1</sup> H, ] K |

**Status:** Point in time view as at 02/03/2017.

**Changes to legislation:** There are currently no known outstanding effects for the Regulation (EC) No 1907/2006 of the European Parliament and of the Council, ANNEX XVII Table 2: rows 251 - 300. (See end of Document for details)

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------|-----------------------------|
| <p>effluent flash drum off;<br/>                 Refinery gas<br/>                 (A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction.<br/>                 It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C<sub>1</sub> through C<sub>6</sub>.)</p>                                                                                                                  |                     |                  |                   |                             |
| <p>Gases (petroleum), naphtha steam cracking high-pressure residual;<br/>                 Refinery gas<br/>                 (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.<br/>                 It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in</p> | <p>649-173-00-X</p> | <p>295-401-2</p> | <p>92045-19-7</p> | <p>[<sup>F1</sup>H, ] K</p> |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|------------|------------------------|
| the range of C <sub>1</sub> through C <sub>5</sub> with which natural gas may also be mixed.)                                                                                                                                                                                                                                    |              |           |            |                        |
| Gases (petroleum), residue visbaking off; Refinery gas (A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulphide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .)   | 649-174-00-5 | 295-402-8 | 92045-20-0 | [ <sup>F1</sup> H, ] K |
| 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 | 649-177-00-1 | 268-629-5 | 68131-75-9 | [ <sup>F1</sup> H, ] K |



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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|------------|-------------------------|
| the range of approximately - 51 °C to - 1 °C.)                                                                                                                                                                                                                                                                                                                                                   |              |           |            |                         |
| Tail 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> .) | 649-178-00-7 | 269-617-2 | 68307-98-2 | [ <sup>F1</sup> H, ] K  |
| Tail gas (petroleum), catalytic polymerisation naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons from the fractionation stabilisation products from polymerisation of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the                                                                                                       | 649-179-00-2 | 269-618-8 | 68307-99-3 | [ <sup>F1</sup> H, ] K] |

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|------------------------------------------------------|--|--|--|--|
| range of C <sub>1</sub><br>through C <sub>4</sub> .) |  |  |  |  |
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**Status:**

Point in time view as at 02/03/2017.

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