ANNEX I

LIST OF ACTIVE SUBSTANCES WITH REQUIREMENTS AGREED AT COMMUNITY LEVEL FOR INCLUSION IN BIOCIDAL PRODUCTS

[F1[F3No	Commo	n IUPAC	Minimu	mDate	Deadline	Expiry	Product	Snecific	_
	Name		en tėgca¢ io		for	date of	type	provisio	
	Ivame	Number		inclusion		n de nclusior ns d	type 1	provisio	onsj
1	sulfuryl fluoride	sulfuryl difluoride EC No: 220-281-5 CAS No: 2699-79-8	5	1 January 2009	31	31 r December 2018	8	Member States shall ensure that authorisa are subject to the following condition (1)	ntions

							Member States shall also ensure that reports of the monitori referred to in point (3) are transmitt by authorisa holders directly to the Commission every fifth year starting from 1 January 2009.	ng red ation
[F6		994 g/kg	1 July 2011	30 June 2013	30 June 2021	18	Member States shall ensure that authorisa are subject to the	

conditions: (1) Products shall only be sold to and used by professionals trained to use them. (2) Appropriate measures to protect fumigators and bystanders during fumigation and venting of treated buildings or other enclosures must be taken. (3) Labels and/or after the taken. (4) Appropriate measures to protect fumigators and bystanders during fumigation and venting of treated buildings or of streated buildings or other enclosures must be taken. (5) Labels and the taken. (6) Labels and the taken. (7) Labels and the taken. (8) Labels and the taken. (9) Labels and the taken. (1) Labels and the taken. (2) Appropriate measures to protect fumigation of any enclosure, enclosure, and the taken.					following	g
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of any						
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any enclosure,						
enclosure,						any
						enclosure,

			all
			food
			items
			must
			be
			removed.
		(4)	Concentrations
			of
			sulfuryl
			fluoride
			in
			remote
			tropospheric
			air
			are
		(5)	monitored.
		(5)	Member States
			shall
			also
			ensure
			that
			reports
			of
			the
			monitoring
			referred
			to
			in
			point
			(4)
			are
			transmitted
			by
			authorisation
			holders
			directly
			to the
			Commission
			every
			fifth
			year,
			starting
			at
			the
			latest
			five
			years
			after
			the
			authorisation.
			The

								limit of detection for the analysis shall be at least 0,5 ppt (equivalent to 2,1 ng sulfuryl fluoride/ m³ of tropospheric air).]
[F72	dichloflua	famide	1 March	28 February 2011	28 February 2019	8	Member States shall ensure that authorisa are subject to the following condition (1)	g

				(3)	the risks identified for the soil compartment appropriate risk mitigation measures must be taken to protect that compartment. Labels and/ or safety-data sheets of products authorised for industrial use indicate that freshly treated timber must be stored after
					indicate that freshly treated timber must be
					hard standing to prevent direct losses to soil and that any

								losses must be collected for re- use or disposal.]
[^{F8} 3	clothianid	i(E)-1- (2- Chloro-1, thiazol-5- ylmethyl) methyl-2- nitroguan EC No: 433-460-1 CAS No: 210880-9	-3- idine	1 February 2010	31 January 2012	31 January 2020	8	When assessing, in accordance with Article 5 and Annex VI, the application for authorisation of a product, Member States shall assess those use/ exposure scenarios and/or populations that have not been representatively addressed in the Community level risk assessment and that may be exposed to the product. When granting product authorisation,

1	1	I.	1	, ,		3.6 1
						Member
						States
						shall
						assess
						the risks
						and
						subsequently
						ensure
						that
						appropriate
						measures
						are
						taken or
						specific
						conditions
						imposed
						in
						order to
						mitigate
						the
						identified
						risks.
						Product
						authorisation
						can
						only be
						granted
						where
						the
						application
						demonstrates
						that
						risks
						can be
						reduced
						to
						acceptable
						levels.
						Member
						States
						shall
						ensure
						that
						authorisations
						are
						subject
						to the
						following
						conditions:
						In view
						of the
						risk
						identified
				•	•	

,		, ,		
				for the
				soil,
				surface
				water
				and
				groundwater
				compartments,
				products
				cannot
				be
				authorised
				for the
				treatment
				of wood
				that will
				be used
				outdoors
				unless
				data is
				submitted
				to
				demonstrate
				that the
				product
				will
				meet the
				requirements
				of
				Article
				5 and
				Annex
				VI, if
				necessary
				by the
				application
				of
				appropriate risk
				risk
				mitigation
				measures.
				In
				particular,
				labels
				and/or
				safety-
				data
				sheets of
				products
				authorised
				for
				industrial
				use
				indicate
	I		ı	marcate

								that freshly treated timber must be stored after treatment on impermeable hard standing to prevent direct losses to soil and that any losses must be collected for reuse or disposal.]
[F94	Difethialo	yl)-1,2,3,4	l 'biphenyl] - - 	1 Movembe 2009	31 rOctober 2011	31 October 2014	14	In view of the fact that the active substance characteristics render it potentially persistent, liable to bioaccumulate and toxic, or very persistent and very liable to bioaccumulate, the active substance is to be subject to a comparative risk assessment

				in	
				accordan	ce
				with the	
				second	
				subparag	raph
				of	·· F
				Article	
				10(5)	
				(i) of	
				Directive	.
				98/8/EC	,
				before	
				its	
				inclusion	1
				in this	•
				Annex is	
				renewed.	
				Member	
				States	
				shall	
				ensure	
				that	
				authorisa	tions
				are	
				subject	
				to the	
				following	<u> </u>
				condition	is:
				(1)	The
					nominal
					concentration
					of
					the
					active
					substance
					in
					the
					products
					shall
					not
					exceed
					0,0025
					%
					w/
					W
					and
					only
					ready-
					for-
					use
					baits
				I	shall

								be
								authorised.
							(2)	Products
							(-)	shall
								contain
								an .
								aversive
								agent
								and,
								where
								appropriate,
								a
								dye.
							(3)	Products
							(3)	shall
								not
								be
								used
								as
								tracking
								powder.
							(4)	Primary
							()	as
								well
								as
								secondary
								ovnosuro
								exposure
								of
								humans,
								non-
								target
								animals
								and
								the
								environment
								are
								minimised,
								by
								considering
								and
								applying
								all
								appropriate and
								anu available
								available
								risk
								mitigation
								measures.
								These
								include,
								amongst
								others,
								the
	1	l	I	ı		ı		

								restriction to professional use only, setting an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[F105	etofenpro	phenoxyb (4- ethoxypho methylpro EC No: 407-980-2 CAS No: 80844-07	enyl)-2- ppylether	1 February 2010	31 January 2012	31 January 2020	8	When assessing, in accordance with Article 5 and Annex VI, the application for authorisation of a product, Member States shall access those use and/or exposure scenarios and/or populations that have

	1	1	1	1	1		
							not been
							representatively
							addressed
							in the
							Community
							Community
							level
							risk
							assessment
							and that
							may be
							exposed
							to the
							product.
							When
							granting
							product
							authorisation,
							Member
	1	1					States
							shall
	1	1					assess
							the risks
							and
							subsequently
							ensure
							that
							appropriate
							measures
							are
							taken or
							specific
							conditions
							imposed
							in
							order to
	1	1					mitigate
	1	1					the
	1	1					identified
	1	1					risks.
	1	1					Product
	1	1					authorisation
	1	1					can
	1	1					
	1	1					only be
	1	1					granted
	1	1					where
	1	1					the
	1	1					application
	1	1					demonstrates
	1	1					
	1	1					that
	1	1					risks
	1	1					can be
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	1	1					to
I	1	1	1	I	I	1	

				acceptable
				levels.
				Member
				States
				shall
				ensure
				that
				authorisations
				are
				subject
				to the
				following
				conditions:
				In view
				of the
				risk
				identified
				for
				workers,
				products
				cannot
				be used
				year
				round
				unless
				dermal
				absorption
				data is
				provided
				to
				demonstrate
				that
				there
				are no
				unacceptable
				risks
				from
				chronic
				exposure.
				In
				addition,
				products
				intended
				for
				industrial
				use must
				be used
				with
				appropriate
				personal
				protective
				equipment.]

[^{F11} 6	tebuconazdle 4-	950 g/kg	1 April	31	31	8	Member
	chlorop	henyl)-4,4-	2010	March	March		States
	dimethy	¹ -3-		2012	2020		shall
	(1,2,4-	_					ensure
	triazol-1						that
		d)pentan-3-					authorisations
	ol						are
	EC No:						subject
	403-640)-2					to the
	CAS						following
	No:	06.2					conditions:
	107534	-90-3					In
							view of
							the
							risks
							identified
							for
							the
							soil
							and
							aquatic
							compartments
							appropriate
							risk
							mitigation
							measures
							must
							be
							taken
							to
							protect
							those
							compartments
							In
							particular,
							labels and/
							or
							safety
							data
							sheets
							of
							products
							authorised
							for
							industrial
							use
							indicate
							that
							freshly
							treated
							timber

				must
				be
				stored
				after
				treatment
				under
				shelter
				or
				on
				impermeable
				hard
				standing
				to
				prevent
				direct
				losses
				to
				soil
				or
				water
				and
				that
				any
				losses
				must
				be
				collected
				for
				reuse
				or
				disposal.
				In
				addition,
				products
				cannot
				be
				authorised
				for
				the
				in
				situ
				treatment
				of
				wood
				outdoors
				or
				for
				wood
				that
				will
				be
				in
				continuous

								contact with water unless data is submitted to demonstrate that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk mitigation measures.]
[^{F12} 7	carbon dioxide	carbon dioxide EC No: 204-696-9 CAS No: 124-38-9	1 Novembe 2009	31 rOctober 2011	31 October 2019	14	When assessing the application for authorisation of a product in accordant with Article 5 and Annex VI, Member States shall assess, when	on ation ce

•		•			
					relevant
					for the
					particular
					product,
					the
					populations
					that
					may be
					exposed
					to the
					product
					and the
					use or
					exposure
					scenarios
					that
					have
					not been
					representatively
					addressed
					at the
					Community
					level
					risk
					assessment.
					When
					granting
					product
					authorisation,
					Member
					States
					shall
					assess
					the risks
					and
					subsequently
					ensure
					that
					appropriate
					measures
					are
					taken or
					specific
					conditions
					imposed
					in
					order to
					mitigate
					the
					identified
					risks.
					Product
					authorisation
	,		,	'	

							can only be granted where the application demonstrates that risks can be reduced to acceptable levels.]
[F13		990 ml/l	Novembe 2012	31 rOctober 2014	31 October 2022	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to compartments and populations that have not been representatively

							addressed	d
							in the	
							European	1
							level	•
							risk	
							assessme	nt
							When	111.
							granting	
							product	.•
							authorisa	tion,
							Member	
							States	
							shall	
							assess	
							the risks	
							and	
							subseque	ntly
							ensure	1101)
							that	
							appropria	ite
							measures	
							are	
							taken or	
							specific	
							condition	IS
							imposed	
							in	
							order to	
							mitigate	
							the	
							identified	1
							risks.	
							Member	
							States	
							shall	
							ensure	
							that authorisa	tions
								uons
							are	
							subject	
							to the	
							following	
							condition	
								Product
								shall
								only
								be
								sold
								to
								and
								used
								by
								professionals
I	I	1	I	I I		ļ		professionals

								(3)	trained to use them. Appropriate measures to protect operators shall be taken to ensure minimum risk, including the availability of personal protective equipment if necessary. Appropriate measures shall be taken to protect bystanders, such as exclusion from the treatment area during
[^{F14} 8	propicona	(2,4-	930 g/kg	1 April 2010	31 March	31 March	8	Member States	fumigation.]
		dichlorop propyl-1,3 dioxolan- yl]methyl triazole EC No: 262-104-4	8- 2-]-1H-1,2,4	-	2012	2020		shall ensure that authorisa are subject to the	tions

CAS No: 60207-90	-1			following conditions: In view of the assumptions made during the risk assessment, products authorised for industrial
				and/or professional use, must
				be used with appropriate personal protective equipment,
				unless it can be demonstrated in the application
				for product authorisation that
				risks to industrial and/or professional
				users can be reduced to an
				acceptable level by other means. In view
				of the risks identified for the
				soil and aquatic compartments appropriate

[risk
						mitigation
						measures
						must be
						taken to
						protect
						those
						compartments.
						In
						particular,
						labels
						and/or
						safety
						data
						sheets of
						products
						authorised
						for
						industrial
						use shall
						indicate
						that
						freshly
						treated
						timber
						must be
						stored
						after
						treatment
						under
						shelter
						or on
						impermeable
						hard
						standing
						to
						prevent
						direct
						losses
						to soil
						or water
						and that
						any
						losses
						must be
						collected
						for
						reuse or
						disposal.
						In
						addition,
						products
						cannot
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								be authorised for the in situ treatment of wood outdoors or for wood that will be exposed to weathering unless data is submitted to demonstrate that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk mitigation measures.]
[^{F15} 9	Difenaco	biphenyl-yl-1,2,3,4 tetrahydro naphthyl)- hydroxyco EC No: 259-978-4 CAS No: 56073-07	- -1- -4- oumarin	1 April 2010	31 March 2012	31 March 2015	14	In view of the fact that the active substance characteristics render it potentially persistent, liable to bioaccumulate and toxic, or very

			persistent and very liable to bioaccurry the active substance is to be subject to a compararisk assessment in accordary with the second subparage of Article 10(5) (i) of Directive 98/8/EC before its inclusion in this Annex is renewed Member States shall ensure that authorisa are subject to the following condition (1)	nulate, e tive ent ace graph The nominal concentration of the
				The nominal concentration of

I 1		I	I	 	I	1		avaaad
								exceed 75
								mg/
								kg
								and
								only
								ready-
								for-
								use
								products
								shall
								be
								authorised.
							(2)	Products
							(2)	shall
								contain
								an
								aversive
								agent
								and,
								where
								appropriate,
								a
								dye.
							(3)	Products
							` '	shall
								not
								be
								used
								as
								tracking
								powder.
							(4)	Primary
								as
								well
								as
								secondary
								exposure
								of humans
								humans,
								non-
								target animals
								and
								the
								environment
								are
								minimised,
								by
								considering
								and
								applying
								all
			•	. '				

								appropriate and available risk mitigation measures. These include, amongst others, the restriction to professional use only, setting an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[F1610	K-HDO	Cyclohex 1-oxide, potassium salt EC No: n/a CAS No: 66603-10 (This entry also covers the hydrated	d la<i>h</i>uh e 2010	30 June 2012	30 June 2020	8	When assessing the application for authorisat of a product in accordance with Article 5 and Annex VI, Member	ion

forms o	of l	I	I		ı	States	
K-HD0						shall	
K-HDC)						
						assess,	
						when	
						relevant	
						for the	
						particula	r
						product,	
						the	
						population	ons
						that	
						may be	
						exposed	
						to the	
						product	
						and the	
						use or	
						exposure	;
						scenarios	
						that	,
						have	
						not been	
						represent	
						addresse	
						at the	u
							.:
						Commun	iity
						level	
						risk	
						assessme	ent.
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	itions
						are	
						subject	
						to the	
						following	g
						condition	ns:
						(1)	in
						ı	view
							of
							the
							possible
							risks
							for
							the
							environment
							and
							workers,
							products
							products shall
							511411

					not
					be
					used
					in
					other
					systems
					than
					industrial,
					fully
					automated
					and
					closed
					ones
					unless
					the
					application
					for
					product
					authorisation
					demonstrates
					that
					risks
					can
					be
					reduced
					to
					acceptable
					levels
					in
					accordance
					with
					Article
					5
					and
					Annex
				(2)	VI;
				(2)	in
					view
					of
					the
					assumptions
					made
					during
					the
					risk
					assessment,
					products
					must
					be
					used
					with
					appropriate
					personal

F17	IDDC		000 a/la	1 Tolor	20 I.m.a	20 June	0	(3)	protective equipment, unless the application for product authorisation demonstrates that risks to users can be reduced to acceptable levels by other means; in view of the risk identified for infants, products shall not be used for the treatment of wood that may enter in direct contact with infants.]
[^{F17} 11	IPBC	iodo-2- propynyl butylcarba	980 g/kg amate	1 July 2010	30 June 2012	30 June 2020	8	Member States shall ensure	

EC No:				that	
259-627-5	5			authorisa	tions
CAS				are	tions
No:				subject	
55406-53	6				
33406-33	-0			to the	
				following	5
				condition	
					In
					view
					of
					the
					assumptions
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					risk
					assessment,
					products
					authorised
					for
					industrial
					and/
					or
					professional
					use,
					must
					be
					used
					with
					appropriate
					personal
					protective
					equipment,
					unless
					it
					can
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					demonstrated
					in
					the
					application
					for
					product
					authorisation
					that
					risks
					to
					industrial
					and/
					or
					professional
					users
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be reduced to an acceptable level by other means. In view of the risks identified for the soil and aquatic compartments appropriate risk mitigation measures must be taken to protect those compartments. In particular, labels and/ or safety data sheets of products authorised for industrial use shall indicate that freshly						
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use shall indicate that freshly					industr	rial
shall indicate that freshly						
indicate that freshly						
that freshly						e
freshly						-
l iresniy						
					Heshly	
treated						
timber						
must		1			must	

									be stored after treatment under shelter or on impermeable hardstanding to prevent direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[F1812	Chloroph	acihloropha EC No: 223-003-0 CAS No: 3691-35-8)	1 July 2011	30 June 2013	30 June 2016	14	In view of the identified risks for non-target animals, the active substance shall be subject to a compararisk assessme in accordan with the second subparag of Article	e tive ent ce

				10(5)	
				(i) of	
				Directive	2
				98/8/EC	
				before	
				its	
				inclusion	l
				in this	
				Annex is	
				renewed.	
				Member	
				States	
				shall	
				ensure	
				that	
				authorisa	tions
				are	
				subject	
				to the	
				following	g
				condition	ns:
				(1)	The
				1	nominal
					concentration
					of
					the
					active
					substance
					in
					products
					other
					than
					tracking
					powder
					shall
					not
					exceed
					50
					mg/
					kg and
					and
					only
					ready-
					for
					use
					products
					shall
					be
				(2)	authorised.
				(2)	Products
					to
					be
					used

					as
					tracking powder
					shall
					only
					be
					placed
					on the
					market
					for
					use
					by trained
					professionals.
				(3)	Products
					shall
					contain an
					aversive
					agent
					and,
					where appropriate,
					a
					dye.
				(4)	Primary
					as well
					as
					secondary
					exposure of
					humans,
					non-
					target
					animals and
					the
					environment
					are
					minimised, by
					considering
					and
					applying
					all appropriate
					and
					available
					risk
					mitigation measures.
	l		ļ		micusures.

									These include, amongst others, the restriction to professional use only, setting an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[^{F19} 13	Thiabenda	thiazol-4- yl-1H- benzoimic EC No: 205-725-8 CAS No: 148-79-8	dazole	1 July 2010	30 June 2012	30 June 2020	8	Member States shall ensure that authorisa are subject to the following condition	ntions

				authorised
				for
				industrial
				and/
				or
				professional
				use,
				with
				respect
				to
				the
				double-
				vacuum
				and
				dipping
				application
				tasks,
				must
				be
				used
				with
				appropriate
				personal
				personar
				protective
				equipment,
				unless
				it
				can
				be
				demonstrated
				in
				the
				application
				for
				product
				authorisation
				that
				risks
				to
				industrial
				and/
				or
				professional
				users
				can
				be
				reduced
				to
				an
				acceptable
				level
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	1	1	1	, ,		
						others
						means.
						In
						view
						of
						the
						risks
						identified
						for
						the
						soil
						and
						aquatic
						compartments
						appropriate
						risk
						mitigation
						measures
						must
						be
						taken
						to
						protect
						those
						compartments.
						In
						particular,
						labels
						and/
						or
						safety
						data
						sheets
						of
						products
						authorised
						for
						industrial
						use
						shall
						indicate
						that
						freshly
						treated
						timber
						must
						be
						stored
						after
						treatment
						under
						shelter
						or

	1					on
						impermeable
						1 1
						hard
						standing
						to
						prevent
						direct
						losses
						to
						soil
						or
						water
						and
						that
						any
						losses
						must
						be
						collected
						for
						reuse
						or
						disposal.
						Products
						shall
						not
						be
						authorised
						for
						the
						in
						situ
						treatment
						of
						wood
						outdoors
						or
						for
						wood
						that
						will
						be
						exposed
						to
						weathering,
						weamening,
						unless
						data
						is
						submitted
						to
						demonstrate
						that
						the
	l .	I	l	ı		-

									product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk mitigation measures.]
[F2014	thiametho	xhimmetho EC No: 428-650-4 CAS No: 153719-2	1	1 July 2010	30 June 2012	30 June 2020	8	Member States shall ensure that authorisa are subject to the following condition. In view of the assumption made during the risk assessme products authorise for industrial and/or professio use must be used with appropria personal protective equipments.	gas: ons nt, d I nal

1					unless it
					can be
					demonstrated
					in the
					application
					for
					product
					authorisation
					that
					risks to
					industrial
					and/or
					professional
					users
					can be
					reduced
					to an
					acceptable
					level by
					other
					means.
					In view
					of the
					risks
					identified
					for the
					soil and
					aquatic
					compartments
					appropriate
					risk
					mitigation
					measures
					must be
					taken to
					protect
					those
					compartments.
					In
					particular,
					labels
					and/or
					safety
					data
					sheets of
					products
					authorised
					for
					industrial
					use shall
					indicate
					that
					freshly

				treated
				timber
				must be
				stored
				after
				treatment
				under
				shelter
				or on
				impermeable
				hard
				standing
				to
				prevent
				direct
				losses
				to soil
				or water
				and that
				any
				losses
				must be
				collected
				for
				reuse or
				disposal.
				Products
				shall
				not be
				authorised
				for the
				in situ
				treatment
				of wood
				outdoors
				or for
				wood
				that
				will be
				exposed
				to
				weathering,
				unless
				data
				have
				been
				submitted
				to
				demonstrate
				that the
				product
				will
				meet the
		·		

							requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk mitigation measures.]
[F21		980 g/kg	1 February 2015	31 January 2017	31 January 2025	18	The Union level risk assessment did not address all potential uses; certain uses, such as outdoor application and use by non-professionals, were excluded. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall

assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Products shall not be authorised for application by brushing, unless data are submitted demonstrating that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application by the application				
where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Products shall not be authorised for application by brushing, unless data are submitted demonstrating that the product will meet the requirements of Article 5 and Annex VI, if necessary by the				assess,
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							of
							appropriate
							risk
							mitigation
							measures.
							For
							products
							containing
							thiamethoxam
							that may
							lead to
							residues
							in food
							or feed,
							Member
							States
							shall
							verify
							the need
							to set
							new
							or to
							amend
							existing
							maximum
							residue
							levels
							(MRLs)
							in
							accordance
							with
							Regulation
							(EC) No
							470/2009
							or
							Regulation
							(EC) No
							396/2005,
							and take
							any
							annronriota
							appropriate
							risk
							mitigation
							measures
							ensuring
							that the
							applicable
							MRLs
							are not
							exceeded.
							Products
							applied
							in such a
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						way that
						emission
						via a
						sewage
						treatment
						plant or
						directly
						to
						surface
						water
						cannot
						be
						prevented
						shall
						not be
						authorised,
						unless
						data are
						submitted
						demonstrating
						that the
						product
						will
						meet the
						requirements
						of
						Article
						5 and
						Annex
						VI, if
						necessary
						by the
						application
						of
						appropriate
						risk
						mitigation
						measures.
						Member
						States
						shall
						ensure
						that
						authorisations
						are
						subject
						to the
						following
						conditions:
						(1) Products
						authorised
						for
						professional
I	1	I	I	I	ı l	professional

xF22.1 c	aluhaahla	r(D) 1 2	925 a/ha	1 Index	20 June	20 June		(2)	use shall be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to professional users can be reduced to an acceptable level by other means. Where appropriate, measures shall be taken to protect honey bees.]
[^{F22} 15	alphachlo	O- (2.2,2-	825 g/kg ethylidene) nose	1 July 2011 -	30 June 2013	30 June 2021	14	When assessing the application for authorisation of a	on

EC No: 240-016-7 CAS No: 15879-93-3 Sand Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the use or exposure scenarios that have not been representatively addressed at the Community level risk assessment. When granting product authorisation, Member States shall assess the risks and subsequently ensure that appropriate measures	LCC Max	ı	I		ı	ı	mra divat
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meet the
requirements
of
Article
5 and
Annex
VI, if
necessary
by the

							application	on
							of .	4
							appropria	ite
							risk	
							mitigatio	
							measures Member	·-
							States	
							shall	
							ensure	
							that	
							authorisa	tions
							are	
							subject	
							to the	
							following	3
							condition	
							(1)	The
								nominal
								concentration of
								the
								active
								substance
								in
								the
								products
								shall
								not
								exceed
								40
								g/
							(2)	kg. Products
							(2)	shall
								contain
								an
								aversive
								agent
								and
								a
							(2)	dye.
							(3)	Only
								products
								for
								use in
								tamper
								resistant
								and
								securely
								closed
								bait
'	'	1	1	'	'	'		

								boxes shall be authorised.]
[F2316	brodifaco	um[3-(4'-bromobip yl)-1,2,3,4 tetrahydronapthyl]-4 hydroxyc EC No: 259-980-5 CAS No: 56073-10	henyl-4- 4- 5-1- 4- oumarin	1 February 2012	31 January 2014	31 January 2017	14	In view of the fact that the fact that the active substance characteristics render it potentially persistent, liable to bioaccumulate and toxic, or very persistent and very liable to bioaccumulate, the active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5) (i) of Directive 98/8/EC before its inclusion in this Annex is renewed. Member States shall

				ensure	
				that	
				authorisa	tions
					1110115
				are	
				subject	
				to the	
				following	g
				condition	is.
				(1)	The
				(1)	nominal
					concentration
					of
					the
					active
					substance
					in
					the
					products
					products
					shall
					not
					exceed
					50
					mg/
					kg
					and
					only
					ready-
					for-
					use
					products
					shall
					be
					authorised.
				(2)	Products
				· /	shall
					contain
					an
					aversive
					agent
					and,
					where .
					appropriate,
					a
					dye.
				(3)	Products
				` /	shall
					not
					be
					used
					as
					tracking
					powder.

					(4)	Primary
					(1)	as
						well
						as
						secondary
						exposure
						of
						humans,
						non-
						target
						animals
						and the
						environment
						are
						minimised,
						by
						considering
						and
						applying
						all
						appropriate
						and
						available
						risk
						mitigation measures.
						These
						include,
						amongst
						others,
						the
						restriction
						to
						professional
						use
						only, setting
						setting
						an
						upper limit
						to
						the
						package
						size
						and
						laying
						down
						obligations
						to
						use
						tamper resistant
ı l		I	1			resistant

								and secured bait boxes.]
[F2417	bromadio	lôn[3-(4'-Bromo[1, biphenyl]-yl)-3-hydroxy-phenylprohydroxy-2benzopyra one EC No: 249-205-9 CAS No: 28772-56	1'- -4- - - - -2H-1- 2-	1 July 2011	30 June 2013	30 June 2016	14	In view of the fact that the fact that the active substance characteristics render it potentially persistent, liable to bioaccumulate and toxic, or very persistent and very liable to bioaccumulate, the active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5) (i) of Directive 98/8/EC before its inclusion in this Annex is renewed. Member States shall

				5
			(2)	shall be authorised. Products shall contain an aversive agent and, where appropriate,
			(3)	appropriate, a dye. Products shall not be used as tracking powder.

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						(4)	Primary
							as
							well
							as
							secondary
							exposure
							of
							humans,
							non-
							target animals
							and
							the
							environment
							are
							minimised,
							by
							considering
							and
							applying
							all
							appropriate
							and
							available
							risk
							mitigation
							measures.
							These
							include,
							amongst
							others, the
							restriction
							to
							professional
							use
							only,
							setting
							an
							upper
							limit
							to
							the
							package
							size
							and
							laying
							down
							obligations
							to
							use
							tamper
							resistant

								and secured bait boxes.]
[F2518	Thiaclopr	(6-chloro-3-	anamide	1 January 2010	n/a	31 December 2019	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the use or exposure scenarios that have not been representatively addressed at the Community level risk assessment. When granting product

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						authorisation,
						Member
						States
						shall
						assess
						the risks
						and
						subsequently
						ensure
						that
						appropriate
						measures
						are
						taken or
						specific
						conditions
						imposed
						in
						order to
						mitigate
						the
						identified
						risks.
						Product authorisation
						can
						only be
						granted where
						the
						application
						demonstrates
						that
						risks
						can be
						reduced
						to
						acceptable
						levels.
						Member
						States
						shall
						ensure
						that
						authorisations
						are
						subject
						to the
						following
						conditions:
						(1) In
						view
						of
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				the assumptions made during the risk assessment, products authorised for industrial and/ or professional use, must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial and/ or professional users can be reduced to an acceptable level by
				by other means.

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					(2)	In
						view
						of
						the
						risks
						identified
						for
						the
						soil
						and
						aquatic
						compartments
						appropriate
						risk
						mitigation
						measures
						must
						be
						taken
						to
						protect
						those
						compartments.
						In
						particular,
						labels
						and/
						or
						safety- data
						sheets
						of
						products
						authorised
						for
						industrial
						use
						shall
						indicate
						that
						freshly
						treated
						timber
						must
						be
						stored
						after
						treatment
						under
						shelter
						and/
						or
						on

									in
									contact
									with
									surface
									water,
									unless data
									have
									been
									submitted
									to
									demonstrate
									that
									the
									product
									will
									meet
									the
									requirements of
									Article
									5
									and
									Annex
									VI,
									if
									necessary
									by
									the
									application
									of appropriate
									risk
									mitigation
									measures.]
F26	T 1	ID .:	706 /		,	2.1	1.0		-
[F2619	Indoxacai	bReaction	796 g/kg		n/a	31	18	When	
	(enantion reaction	methyl		January 2010		December 2019	ſ	assessing the	
	mass	(S)- and		2010		2019		application	\n
	S:R	methyl(R)	1-7-					for)11
	75:25)	chloro-2.3	3 4a 5-					authorisa	tion
		tetrahydro)-2-					of a	
		[methoxy	carbonyl-					product	
		(4-						in	
		trifluoron	ethoxyphe	nyl)				accordan	ce
			l]indeno[1	,2-				with	
		e]	1:					Article	
		[1.3,4]0X8	adiazine-4a	1-				5 and	
		carboxyla (This	lle					Annex VI,	
		entry						Member	
		covers						States	
	l	10,010	1	l	l	l		- June 5	

the				shall
75:25				assess,
reaction				when
mass of				relevant
the S				for the
and R				particular
enantiom	re)			product,
EC No:	13)			the
n/a				
CAS				populations that
No: S-				may be
enantiom				exposed
173584-4	4-6			to the
and R-				product
enantiom				and the
185608-7	5-7)			use or
				exposure
				scenarios
				that
				have
				not been
				representatively
				addressed
				at the
				Community
				level
				risk
				assessment.
				When
				granting
				product
				authorisation,
				Member
				States
				shall
				assess
				the risks
				and
				subsequently
				ensure
				that
				appropriate
				measures
				are
				taken or
				specific
				conditions
				imposed
				in
				order to
				mitigate
1 1				the

1				identified
				risks.
				Product
				authorisation
				can
				only be
				granted
				where
				the
				application
				demonstrates
				that
				risks
				can be
				reduced
				to
				acceptable
				levels.
				Member
				States
				shall
				ensure
				that
				authorisations
				are
				subject
				to the
				following
				conditions:
				Appropriate
				risk
				mitigation measures
				must be
				taken to
				minimise
				the
				potential
				exposure
				of
				humans,
				of non-
				target
				species
				and
				of the
				aquatic
				environment.
				In
				particular,
				labels
				and/or
				safety-

				(2)	children and companion animals. Products shall be positioned away from
				(3)	external drains. Unused products shall be disposed of properly and
					not washed down the drain.
				products shall be authorise	d.]

[F2720	aluminium	aluminiun	n830 g/kg	1	31	31	14	When
l 20	phosphider	hosphida	noso g/ng	Septembe		August	17	assessing
	releasing	EC No:	,	2011	2013	2021		the
	releasing I phosphine 2	LC INU.	1	2011	2013	2021		
	phospinie	244-088-0 CAS	,					application for
		No:						authorisation
		No. 20859-73	Q					of a
		20039-73	-0					product
								-
								in accordance
								with
								Article
								5 and
								Annex
								VI,
								Member
								States
								shall
								assess, when
								relevant
								for the
								particular
								product,
								the
								populations
								that
								may be
								exposed
								to the
								product
								and the
								use or
								exposure
								scenarios
								that
								have
								not been
								representatively
								addressed
								at the
								Community
								level
								risk
								assessment.
								When
								granting
								product
								authorisation,
								Member
								States
								shall
								assess

		1	<u> </u>			١	the risks
							and
							subsequently
							ensure
							that
							appropriate
							measures
							are
							taken or
							specific
							conditions
							imposed
							in
							order to
							mitigate
							the
							identified
							risks.
							Product
							authorisation
							can
							only be
							granted
							where
							the
							application
							demonstrates
							that
							risks
							can be
							reduced
							to
							acceptable
							levels.
							In
							particular,
							products
							cannot
							be
							authorised
							for
							indoor
							use
							unless
							data is submitted
							to
							demonstrate
							that the
							product
							will
							meet the
							requirements
I	I	I	I	ļ ļ		l	

							of	
							Article	
							5 and	
							Annex	
							VI, if	
							necessar	V
							by the	,
							application	on
							of	011
							appropria	ate
							risk	atc
							mitigatio	n
							measures	,
							Member	
							States	
							shall	
							ensure	
							that authorisa	4:
								itions
							are	
							subject	
							to the	
							following	S S
							condition	
							(1)	Products
								shall
								only
								be
								sold
								to
								and
								used
								by
								specifically
								trained
								professionals.
							(2)	In
								view
								of
								the
								risks
								identified
								for
								operators,
								appropriate
								risk
								mitigation
								measures
								must
								be
								applied.
								These
								include,
I	I	I	I	I	ļ l	١		,

					amongst
					others,
					the
					use of
					appropriate personal
					protective
					equipment,
					the
					use
					of
					applicators
					and
					the presentation
					of
					the
					product
					in
					a
					form
					designed to
					reduce
					operator
					exposure
					to
					an
					acceptable
				(3)	level. In
				(3)	view
					of
					the
					risks
					identified
					for terrestrial
					non-
					target
					species,
					appropriate
					risk
					reduction
					measures must
					be
					applied.
					These
					include,
					amongst
					others,

							the non- treatment of areas where other burrowing mammals than the target species are present.]
[F28		830 g/kg	1 February 2012	31 January 2014	31 January 2022	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to compartments and populations that have not been

	1		,	
				representatively
				addressed
				in the
				Union
				level
				risk
				assessment.
				In
				particular,
				where
				relevant,
				Member
				States
				shall
				assess
				outdoor
				use.
				When
				granting
				product
				authorisation,
				Member
				States
				shall
				ensure
				that
				adequate
				residue
				trials are
				provided
				to allow
				consumer
				risk
				assessment
				and that
				appropriate
				measures
				are
				taken or
				specific
				conditions
				imposed
				in
				order to
				mitigate
				the
				identified
				risks.
				Member
				States
				shall
				ensure
				that

			authorisa are subject to the following condition	g
			(1)	Products shall only be supplied to and used by specifically trained professionals in the form of ready-for-use products.
			(2)	In view of the risks identified for operators, appropriate risk mitigation measures must be applied. Those include, amongst others, the use of appropriate personal and

I	l.	l.	I]		1	
							respiratory protective
							equipment,
							the
							use
							of
							applicators
							and
							the
							presentation
							of
							the
							product in
							a
							form
							designed
							to
							reduce
							the
							exposure of
							operators
							to
							an
							acceptable
							level.
							For
							indoor
							use, those
							include
							also
							the
							protection
							of
							operators
							and workers
							during
							fumigation,
							the
							protection
							of
							workers
							at
							re- entry
							(after
							fumigation
							period)
							and
							the

					protection of bystanders against leaking of gas.
				(3)	For products containing aluminium phosphide that may lead to residues in food or feed, labels and/ or safety data sheets for authorised products must contain instructions for use, such as the adherence to waiting periods, which ensure compliance with the provisions laid down in Article

								of Regulation (EC) No 396/2005 of the European Parliament and of the Council (OJ L 70, 16.3.2005, p. 1).]
[F2921	fenpropin	cis-4-[3- (p-tert- butylphen methylpro	opyl]-2,6- norpholine	2011	30 June 2013	30 June 2021	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the

						use or
						exposure
						scenarios
						that
						have
						not been
						representatively
						addressed
						at the
						Community
						level
						risk
						assessment.
						When
						granting
						product
						authorisation,
						Member
						States
						shall
						assess
						the risks
						and
						subsequently
						ensure
						that
						appropriate
						measures
						are
						taken or
						specific
						conditions
						imposed
						in
						order to
						mitigate
1						the
						identified
						risks.
						Product
						authorizati
						authorisation
						can
						only be
						granted
						where
						the
						application
						demonstrates
						that
						risks
						can be
						reduced
						to
1	l	l			l	

acceptable levels. Member States shall ensure that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users	1	,	1	1	1		
Member States shall ensure that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, umless it can be demonstrated in the application for product authorisation that risks to industrial users						acceptab	le
States shall ensure that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
shall ensure that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
ensure that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
that authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users						shall	
authorisations are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial uses:						ensure	
are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users						that	
are subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users						authorisa	itions
subject to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
to the following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
following conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial						to the	
conditions: (1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial use							σ
(1) In view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users						condition	12. 2
view of the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
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the assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial uses							
assumptions made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
made during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
during the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							made
the risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
risk assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							the
assessment, products authorised for industrial use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
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use must be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
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used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							
protective equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							appropriate
equipment, unless it can be demonstrated in the application for product authorisation that risks to industrial users							personar
unless it can be demonstrated in the application for product authorisation that risks to industrial users							protective
it can be demonstrated in the application for product authorisation that risks to industrial users							
can be demonstrated in the application for product authorisation that risks to industrial users							
be demonstrated in the application for product authorisation that risks to industrial users							
demonstrated in the application for product authorisation that risks to industrial users							
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the application for product authorisation that risks to industrial users							
application for product authorisation that risks to industrial users							
for product authorisation that risks to industrial users							
product authorisation that risks to industrial users							application
authorisation that risks to industrial users							
that risks to industrial users							product
risks to industrial users							
to industrial users							
industrial users							
users							
can							can

						be
						reduced
						to
						an
						acceptable
						level
						by
						other
						means.
					(2)	In
						view
						of
						the
						risks
						identified
						for
						the
						soil
						and
						aquatic
						compartments,
						appropriate
						risk
						mitigation
						measures
						must
						be
						taken
						to
						protect
						those
						compartments.
						particular, labels
						and/
						or
						safety-
						data
						sheets
						of
						products
						authorised
						for
						industrial
						use
						shall
						indicate
						that
						freshly
						treated
						timber
						must
		'	'	,		

							be stored after treatment under shelter and/ or on impermeable hard standing to prevent direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[F3022	boric	boric acid EC No: 233-139-2 CAS No: 10043-35	1 Septembe 2011	31 rAugust 2013	31 August 2021	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant

1						for the
						particular
						product,
						the
						populations
						that
						that
						may be
						exposed
						to the
						product
						and the
						use or
						exposure
						scenarios
						that
						have
						not been
						representatively
						addressed
						at the
						Community
						level
						risk
						assessment.
						When
						granting
						product
						product
						authorisation, Member
						States
						shall
						assess
						the risks
						and
						subsequently
						ensure
						that
						appropriate
						measures
						are
						taken or
						specific
						conditions
						imposed
						in
						order to
						mitigate
						the
						identified
						risks.
						Product
						authorisation
						can
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only be granted where the application demonstrates	
where the application demonstrates	
the application demonstrates	
application demonstrates	
demonstrates	
demonstrates	
risks	
can be	
reduced	
to	
acceptable	
levels.	
Member	
States	
shall	
ensure	
that	
authorisations	
are	
subject	
to the	
following	
conditions:	
(1) Products	
authorised	
for	
industrial	
and	
profession	al
use	
must	
be be	
used	
with	
appropriate approp	e
appropriat personal	
protective	
equipmen	,
unless	
it	
can	
be	
demonstra	ted
in in	
the	
applicatio	1
for	
product	
authorisat	on
that	
risks	
l l to	

1							industrial
							and/
							or
							professional
							users
							can
							be
							reduced
							to
							an
							acceptable
							level
							by other
							means.
						(2)	In
						(2)	view
							of
							the
							risks
							identified
							for
							the
							soil
							and
							aquatic
							compartments, products
							shall
							not
							be
							authorised
							for
							the
							in
							situ
							treatment
							of
							wood outdoors
							or
							for
							wood
							that
							will
							be
							exposed
							to
							weathering,
							unless
							data
							is automitted
							submitted

1	1	I	I				to
							demonstrate
							that
							the
							product will
							meet
							the
							requirements of
							Article
							5
							and
							Annex
							VI, if
							necessary
							by
							the
							application of
							appropriate risk
							mitigation
							measures.
							In
							particular,
							labels
							and/
							or
							safety-
							data
							sheets
							of
							products
							authorised
							for
							industrial
							use
							shall
							indicate
							that
							freshly
							treated
							timber
							must
							be
							stored
							after
							treatment
							under
							shelter
							and/
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							or on impermeable hard standing to prevent direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[F3123	boric oxide	Diboron trioxide EC No: 215-125-8 CAS No: 1303-86-2	September 2011	31 rAugust 2013	31 August 2021	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be

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							exposed
							to the
							product
							and the
							use or
							exposure
							scenarios
							that
							have
							not been
							representatively
							addressed
							at the
							Community
							level
							risk
							assessment.
							When
							granting
							product
							authorisation,
							Member
							States
							shall
							assess
							the risks
							and
							subsequently
							ensure
							that
							appropriate
							measures
							are
							taken or
							specific
							conditions
							imposed in
							order to
							mitigate
							the
							identified
							risks.
							Product
							authorisation
							can
							only be
							granted
							where
							the
							application
							domonaturates
							demonstrates
	1						that

						risks	
						can be	
						reduced	
						to	
						acceptab	le
						levels.	
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	tions
						are	
						subject	
						to the	
						following	3
						condition	roducts
						(1)	authorised
							for
							industrial
							and
							professional
							use
							must
							be
							used
							with
							appropriate
							personal
							protective
							equipment, unless
							it
							can
							be
							demonstrated
							in
							the
							application
							for
							product
							authorisation
							that
							risks
							to industrial
							and/
							or
							professional
							users
							can
							be
		•			'		

							reduced
							to
							an
							acceptable
							level
							by
							other
							means.
							In
							view
							of
							the
							risks
							identified
							for
							the
							soil
							and
							aquatic
							compartments,
							products
							shall
							not
							be
							authorised
							for
							the
							in
							situ
							treatment
							of
							wood
							outdoors
							or for
							wood
							that
							will
							be
							exposed
							to
							weathering,
							unless
							data
							is
							submitted
							to
							demonstrate
							that
							the
							product
							will
							meet
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					the
					requirements
					of
					Article
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					and
					Annex
					VI,
					if
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					by
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					unc
					application
					of
					appropriate
					risk
					mitigation
					measures.
					In
					particular,
					particular,
					labels
					and/
					or
					safety-
					data
					sheets
					of
					products
					authorised
					for
					industrial
					use
					shall
					indicate
					that
					freshly
					treated
					timber
					must
					be
					stored
					after
					treatment
					under
					shelter
					and/
					or
					on
					impermeable
					hard
					standing
					to
					prevent
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								direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[^{F32} 24	disodium tetraborat	[F33 disodirecteraborate EC No: 215-540-4 CAS No (anhydrou 1330-43-4 CAS No (pentahydrou 12179-04 CAS No (decahydrou 1303-96-4	e 4 1s): 4 1rate): -3	1 Septembe 2011	31 rAugust 2013	31 August 2021	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the use or exposure scenarios

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							have
							not been
							representatively
							addressed
							at the
							Community
							level
							risk
							assessment.
							When
							granting
							product
							authorisation,
							Member
							States
							shall
	1						assess
							the risks
							and
							subsequently
							ensure
							that
							appropriate
							measures
							are
							taken or
							specific
							conditions
							imposed
							in
							order to
							mitigate
							the
							identified
	1						risks.
	1						Product
							authorisation
							can
							only be
							granted
							where
							the
							application
							demonstrates
							that
							risks
							can be
							reduced
							to
							acceptable
							levels.
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	1	1	, ,				
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	tions
						are	
						subject	
						to the	
						following	3
						condition	is:
						(1)	Products
							authorised
							for
							industrial
							and
							professional
							use
							must
							be
							used
							with
							appropriate
							personal
							protective
							equipment,
							unless
							it
							can
							be
							$\underset{\cdot}{\text{demonstrated}}$
							in
							the
							application
							for
							product
							authorisation
							that
							risks
							to industrial
							and/
							or
							professional
							users
							can
							be
							reduced
							to
							an
							acceptable
							level
							by
1		l		l	l		Uy

					other
					means.
					In
				(2)	view
					of
					the
					risks
					identified
					for
					the
					soil
					and
					aquatic
					compartments,
					products
					shall
					not
					be
					authorised
					for
					the
					in
					situ
					treatment
					of
					wood
					outdoors
					or
					for
					wood
					that
					will
					be
					exposed
					to
					weathering,
					unless
					data
					is
					submitted
					to
					demonstrate
					that
					the
					product
					will
					meet
					the
					requirements
					of
					Article
					5
					and

							Annex
							VI,
							if
							necessary
							by
							the
							application
							of
							appropriate
							risk
							mitigation
							measures.
							In
							particular,
							particular,
							labels
							and/
							or
							safety-
							data
							sheets
							of
							products
							authorised
							for
							industrial
							use
							shall
							indicate
							that
							freshly
							treated
							timber
							must
							be
							stored
							after
							treatment
							under
							shelter
							and/
							or
							on
							impermeable
							hard
							standing
							to
							prevent
							direct
							losses
							to
							soil
							or
							water
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								and that any losses must be collected for reuse or disposal.]
[F3425	octaborate	disodium coctaborate ttætrahydra EC No: 234-541-(CAS No: 12280-03	e ite	1 Septembe 2011	31 rAugust 2013	31 August 2021	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the use or exposure scenarios that have not been representatively addressed at the

1	1	1	1	1		Community
						level
						risk
						assessment.
						When
						granting
						product
						authorisation,
						Member
						States
						shall
						assess
						the risks
						and
						subsequently
						ensure
						that
						appropriate
						measures
						are
						taken or
						specific
						conditions
						imposed
						in
						order to
						mitigate the
						identified
						risks.
						Product
						authorisation
						can
						only be
						granted
						where
						the
						application
						demonstrates
						that
						risks
						can be
						reduced
						to
						acceptable levels.
						Member
						States
						shall
						ensure
						that
						authorisations
						are
1	1	ı	Ţ	1	1	1

subject to the following conditions: (1) Products authorise for industrial and professio	ed ll onal
to the following conditions: (1) Products authorise for industrial and	ed ll onal
following conditions: (1) Products authorise for industrial and	ed ll onal
conditions: (1) Products authorise for industrial and	ed ll onal
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for industrial and	ıl onal
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use	ate
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protective	/e
equipmer	nt
unless	111,
it amess	
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be	
demonstr	rotad
	raieu
the	
application	on
for	
product	. •
authorisa	ıtıon
that	
risks	
to	
industrial	.1
and/	
or or	
professio	onal
users	
can	
be	
reduced	
to	
an	
acceptabl	le
level	
by	
other	
means.	
(2) In	
(2) III view	
View	
of the	
the	
risks	

						identified
						for
						the
						soil
						and
						aquatic
						compartments,
						products
						shall
						not
						be
						authorised
						for
						the
						in
						situ
						treatment
						of
						wood
						outdoors
						or
						for
						wood
						that
						will
						be
						exposed
						to
						weathering,
						unless
						data
						is
						submitted
						to
						demonstrate
						that
						the
						nrodust
						product will
						meet
						the
						requirements
						of
						Article
						5
						and
						Annex
						VI,
						if
						necessary
						by
						the
						application
	1	l	I	ı		PP

1	1	1	1			
						of
						appropriate
						risk
						mitigation
						measures.
						In
						particular,
						labels
						and/
						or
						safety-
						data
						sheets
						of
						products
						authorised
						for
						industrial
						use
						shall
						indicate
						that
						freshly
						treated
						timber
						must
						be
						stored
						after
						treatment
						under
						shelter
						and/
						or
						on
						impermeable
						hand
						hard
						standing
						to
						prevent
						direct
						losses
						to
						soil
						or
						water
						and
						that
						any
						losses
						must
						be
						collected

							for reuse or disposal.]
[F3526	diphosphi	de '	1 February 2012	31 January 2014	31 January 2022	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to compartments and populations that have not been representatively addressed in the Union level risk assessment. In particular, where relevant,

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					Member	
					States	
					shall	
					assess	
					outdoor	
					use.	
					When	
					granting	
					product	
					authorisa	tion
					Member	,
					States	
					shall	
					ensure	
					that	
					adequate	
					residue	
					trials are	
					provided	
					to allow	
						•
					consume risk	I
						t
					assessme	III
					and that	.4.
					appropria	
					measures	3
					are	
					taken or	
					specific	
					condition	ıs
					imposed	
					in	
					order to	
					mitigate	
					the	
					identified	1
					risks.	
					Member	
					States	
					shall	
					ensure	
					that	
					authorisa	tions
					are	
					subject	
					to the	
					following	g
					condition	ns:
					(1)	Products
						shall
						only
						be
						supplied
- 1	I	1	I	ı İ	I .	Supplied

					to and
					used
					by
					specifically
					trained
					professionals
					in
					the form
					of
					ready-
					for-
					use
					products.
				(2)	In
					view of
					the
					risks
					identified
					for
					operators,
					appropriate
					risk mitigation
					measures
					must
					be
					applied.
					Those
					include, amongst
					others,
					the
					use
					of
					appropriate
					personal and
					respiratory
					protective
					equipment,
					the
					use
					of applicators
					and
					the
					presentation
					of
					the
					product

in a form designed to reduce the exposure of operators to an acceptable level. For indoor use, those include also the protection of operators during fumigation, the protection of workers at rentry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide that		1	, .			
form designed to reduce the exposure of operators to an acceptable level. For indoor use, those include also the protection of operators and workers during furnigation, the protection of workers at re-entry (after furnigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						in
designed to reduce the exposure of operators to on an acceptable level. For indoor use, those include also the protection of operators and workers during furnigation, the protection of workers at at at at re-entry (after furnigation period) and the protection of of systanders against leaking of gas. (3) For products containing magnesium phosphide						
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reduce the exposure of operators to an acceptable level. For indoor use, those include also the protection of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of of bystanders against leaking of gas. (3) For products containing magnesium phosphide						designed
the exposure of of operators to an acceptable level. For indoor use, those include also the protection of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						
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to an acceptable level. For indoor use, those include also the protection of operators and workers during fumigation, the protection of workers at re- entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						operators
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those include also the protection of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						use,
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protection of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						also
of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						the
of operators and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						protection
and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						of
and workers during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						operators
during fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						and
fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						workers
fumigation, the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						during
the protection of workers at re-entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						fumigation,
of workers at re- entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						the
of workers at re- entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						protection
at re- entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						of
re- entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						workers
entry (after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						at
(after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						re-
(after fumigation period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						entry
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period) and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						fumigation
and the protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						period)
protection of bystanders against leaking of gas. (3) For products containing magnesium phosphide						and
of bystanders against leaking of gas. (3) For products containing magnesium phosphide						
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leaking of gas. (3) For products containing magnesium phosphide						bystanders
leaking of gas. (3) For products containing magnesium phosphide						against
of gas. (3) For products containing magnesium phosphide						leaking
(3) For products containing magnesium phosphide						of
products containing magnesium phosphide						gas.
products containing magnesium phosphide					(3)	For
containing magnesium phosphide						products
magnesium phosphide						containing
phosphide						magnesium
that						phosphide
						that

may lead to residues in food or feed, labels and/ or safety data sheets for authorised products must contain instructions for use, such as the adherence to waiting periods, which ensure compliance with the provisions laid down in Article 18 of Regulation (EC) No 396/2005 of the European Parliament and of the Council					
lead to residues in food or feed, labels and/ or feed, labels and/ or safety data sheets for authorised products must contain instructions for use, such as the adherence to waiting periods, which ensure compliance with the provisions laid down in Article 18 of Regulation (EC) No 396/2005 of the European Parliament and of the	1				may
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sheets for authorised products must contain instructions for use, such as the adherence to waiting periods, which ensure compliance with the provisions laid down in Article 18 of Regulation (EC) No 396/2005 of the European Parliament and of the					data
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[F3627	Nitrogen	Nitrogen EC No: 231-783-9 CAS No: 7727-37-9)	1 Septembe 2011	31 rAugust 2013	31 August 2021	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, the populations that may be exposed to the product and the use or exposure scenarios that have not been representatively addressed at the Community level risk assessment.

	Meml States shall assess the ris and subse ensure that appro measu are taken specificondi imposi in	ing ict risation, ber s s s sks quently e priate ures or fic tions sed
	and subse ensure	quently
	appro measu are	ures
	specificondi impos	fic tions
	order mitigathe	ate
	can only b grante where	ed
	that	cation nstrates
	risks can be reduce to	ed
	accep levels Meml States	ber
		e risations
	are subject to the follow	

								(2)	Products may only be sold to and used by professionals trained to use them. Safe working practices and safe systems of work must be in place to ensure minimum risk, including the availability of personal protective equipment if necessary.
[^{F37} 28	Coumatet	ralylimatet EC No: 227-424-(CAS No: 5836-29-3)	1 July 2011	30 June 2013	30 June 2016	14	In view of the identified risks for non-target animals, the active substance shall be subject to a	

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						compara	tive
						risk	
						assessme	ent
						in	
						accordan	ice
						with the	
						second	•
						subparag	graph
						of	
						Article	
						10(5)	
						(i) of	
						Directive	
						98/8/EC	
						before	
						its	
						inclusion	1
						in this	
						Annex is renewed.	
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	ntions
						are	
						subject	
						to the	
						following	g
						condition	ns:
						(1)	The
						, ,	nominal
							concentration
							of
							the
							active
							substance
							in
							products
							other
							than
							tracking
							powder
							shall
							not
							exceed 375
							mg/
							kg and
							only
							ready-
	l	I	I				ready-

			(2)	for use products shall be authorised. Products shall contain an aversive agent and, where appropriate,
				a dye.
			(3)	rimary as well as secondary exposure of humans, non-target animals and the environment are minimised, by considering and applying all appropriate and available risk mitigation measures. These include, amongst others, the restriction to professional use

								only, setting an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[F3829	tolylfluan	N-(p-	lamino)sul	1 October p20drlyl]flu namide	30 September 20013	30 rSeptembe 2021	8 r	Products shall not be authorised for the in situ treatment of wood outdoors or for wood that will be exposed to weathering. Member States shall ensure that authorisations are subject to the following conditions: (1) In view of the

	ı	1	1	ı	,	ı	ı	_
								assumptions
								made
								during
								the
								risk
								assessment,
								products
								authorised
								for
								industrial
								or
								professional
								use
								must
								be
								used
								with
								appropriate
								personal
								protective
								equipment,
								unless it
								can be
								demonstrated
								in
								the
								application
								for
								product
								authorisation
								that
								risks
								to
								industrial
								or
								professional
								users
								can
								be
								reduced
								to
								an
								acceptable
								level
								by
								other
							(2)	means.
							(2)	In
								view of
								the
								uic

				risks identified
				for the
				soil
				and
				aquatic compartments,
				appropriate
				risk mitigation
				measures
				must
				be taken
				to
				protect
				those compartments.
				In
				particular, labels
				and/
				or
				safety- data
				sheets
				of
				products authorised
				for
				industrial or
				professional
				use
				shall indicate
				that
				freshly treated
				timber
				must
				be stored
				after
				treatment under
				shelter
				and/
				or on
				impermeable
				hard

							standing to prevent direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[F3930	Acrolein	Acrylalde By the g/le EC No: 203-453-4 CAS No: 107-02-8	September 2010	Not erapplicable	31 August 2020	12	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, the populations that may be exposed to the product and the

use or exposure scenarios that have not been representatively addressed at the Union level risk assessment. Member States shall ensure that authorisations are subject to the following conditions: (1) Waste waters containing aerolein shall be monitored prior to discharge, unless it can be demonstrated that risks for the environment can be reduced by other means Where means Where means Where means Where means Where means Where means						
scenarios that have not been representatively addressed at the Union level risk assessment. Member States shall ensure that authorisations are subject to the following conditions: (1) Waste waters containing acrolein shall be monitored prior to discharge, unless it t can be demonstrated that risks for the environment can be reduced by other means. Where means. Where					use or	
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(1) Waste waters containing acrolein shall be monitored prior to discharge, unless it can be demonstrated that risks for the environment can be reduced by other means. Where necessary					condition	is.
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					the
					risks
					to
					marine
					environment,
					waste
					waters
					shall
					be
					held
					in
					suitable
					tanks
					or
					reservoirs
					or
					appropriately
					treated
					before
				(2)	discharge.
					Products
					authorised
					for industrial
					and/
					or professional
					use
					shall
					be
					used
					with
					appropriate
					personal
					protective
					equipment,
					and
					safe
					operational
					procedures
					shall
					be
					established,
					unless
					it
					can
					be
					demonstrated
					in the
					application
1 1			l		application

									for product authorisation that risks to industrial and/ or professional users can be reduced to an acceptable level by others means.]
[F4031	Flocouma	hydroxy-3 [(1RS,3RS) tetrahydro [4-(4-	5;1RS,3RS) 0-3- nethylbenz coumarin	October	2013	30 rSeptembe 2016	14 r	In view of the fact that the active substance character render it potential persisten liable to bioaccum and toxic, or very persisten and very liable to bioaccum the active substance is to be subject to a comparatrisk assessme in accordan with the	istics ly t, nulate t nulate, e

						second	
						subparag	raph
						of	
						Article	
						10(5)	
						(i) of	
						Directive	•
						98/8/EC	•
						before	
						its	
						inclusion	
						in this	L
						Annex is	
						renewed.	
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	tions
						are	
						subject	
						to the	
						following	<u>g</u>
						condition	is:
						(1)	The
							nominal
							concentration
							of
							the
							active
							substance
							in
							products
							shall
							not
							avagad
							exceed
							50 ma/
							mg/
							kg
							and
							only
							ready-
							for-
							use
							products
							shall
							be
							authorised.
						(2)	Products
						· I	shall
							contain
							an
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1		I	 	 	I		aversive
							agent
							and,
							where
							appropriate,
							a
						(3)	dye. Products
						(3)	shall
							not
							be
							used
							as
							tracking powder.
						(4)	Primary
						()	as
							well
							as
							secondary
							exposure of
							humans,
							non-
							target
							animals
							and the
							environment
							are
							minimised,
							by
							considering
							and applying
							all
							appropriate
							and
							available
							risk mitigation
							mitigation measures.
							Those
							include,
							amongst
							others,
							the restriction
							to
							professional
							use
							only,
							setting

									an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[^{F41} 32	Warfarin	hydroxy-3 (3- oxo-1-	tyl)coumar	February 2012	31 January 2014	31 January 2017	14	The active substance shall be subject to a comparatrisk assessment in accordance with the second subparage of Article 10(5) (i) of Directive 98/8/EC before its inclusion in this Annex is renewed. Member States shall ensure that authorisating are	ive nt ce raph

				(2)	ss: the nominal concentration of the active substance shall not exceed 790 mg/ kg and only ready- for- use products shall be authorised; products shall contain an aversive agent and, where appropriate, a dye; primary and secondary exposure of humans,
				(3)	and, where appropriate, a dye; primary and secondary exposure of
					non- target animals and the environment are minimised, by considering

								and applying all appropriate and available risk mitigation measures. These include, amongst others, the possibility of restriction to professional use only, setting an upper limit to the package size and laying down obligations to use tamper resistant and secured bait boxes.]
[^{F42} 33	Warfarin sodium	2-oxo-3- (3- oxo-1-	1 February 2012 n-4-	31 January 2014	31 January 2017	14	The active substance shall be subject to a comparatrisk assessme in accordan	ive nt

						with the	
						second	
						subparag	ranh
						of	тирп
						Article	
						10(5)	
						(i) of	
						Directive	;
						98/8/EC	
						before	
						its	
						inclusion	
						in this	
						Annex is	
						renewed.	
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	tions
							tions
						are	
						subject	
						to the	
						following	3
						condition	
						(1)	the
							nominal
							concentration
							of
							the
							active
							substance
							shall
							not
							exceed
							790
							mg/
							kg
							and
							only
							ready-
							for-
							use
							products
							shall
							be
							authorised;
						(2)	products
							shall
							contain
							an
							aversive
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								agent
								and,
								where
								appropriate,
								a
								dye;
							(3)	primary
							` '	and
								secondary
								exposure
								of
								humans,
								non-
								target
								animals
								and
								the
								environment
								are
								minimised,
								by
								considering
								and
								applying all
								appropriate
								and
								available
								risk
								mitigation
								measures.
								These
								include,
								amongst
								others,
								the
								possibility
								of
								restriction
								to
								professional
								use
								only,
								setting
								an
								upper limit
								to
								the
								package
								size
								and
								laying
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								down obligations to use tamper resistant and secured bait boxes.]
[F4334	Dazomet	Tetrahydr dimethyl-thiadiazin thione EC No: 208-576-7 CAS No: 533-74-4	1,3,5- e-2-	1 August 2012	31 July 2014	31 July 2022	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to compartments and populations that have not been representatively addressed in the EU level risk

1	1 1	1	1 1	1
				assessment.
				In
				particular,
				where
				relevant,
				Member
				States
				shall
				assess
				any
				other
				use than
				professional
				use
				outdoors
				for the
				remedial
				treatment
				of
				wooden
				poles by
				insertion
				of
				granules.
				Member
				States
				shall
				ensure
				that
				authorisations
				are
				subject
				to the
				following
				condition:
				Products
				authorised
				for
				industrial
				and/or
				professional
				use shall
				be used
				with
				appropriate
				personal
				protective
				equipment,
				unless it
				can be
				demonstrated
				in the
				application

							for product authorisation that risks to industrial and/or professional users can be reduced to an acceptable level by others means.]
[F4435	N,N-diethyl-meta-toluamide	N,N-diethyl-m-etoluamide EC No: 205-149-7 CAS No: 134-62-3	1 August 2012	31 July 2014	31 July 2022	19	Member States shall ensure that authorisations are subject to the following conditions: (1) primary exposure of humans shall be minimized by considering and applying appropriate risk mitigation measures, including, where applicable, instructions for the amount and frequency of

				(2)	application of the product on human skin; labels on products intended for application on human skin, hair or
					clothing shall indicate that the product is intended only for restricted use on children
					between two and twelve years old, and that it is not intended for
					use on children less than two years old,

						(3)	unless it can be demonstrated in the application for product authorisation that the product will meet the requirements of Article 5 and Annex VI without such measures; products must contain deterrents for ingestion.]
[^{F45} 36	Metofluth	(WRtBR)-2, dbottet hlyd-3 (Kr)Howing (propintum epyr)tigslo EC No: n.a. CAS No: 240494-71 Sum of	-4- nethyl)bens 2- - propanecas RTZ isomer: 754 g/ kg	30 April 22021	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess,	on tion

			isomers:	nethyl)ben 1SR,3SR) - ropanecar	-2,2-			when relevant for the particular product, those uses or exposure scenarios and those risks to compartments and populations that have not been representatively addressed in the European level risk assessment.]
[^{F46} 37	Spinosad	434-300-1 CAS No: 168316-9 Spinosad is a mixture of 50-95 % spinosyn A and 5-50 % spinosyn D. Spinosyn A (2R,3aS,5 [(6- deoxy-2,3 tri-O- methyl- α-L- mannopyn [[(2R,5S,6	aR,5bS,9S ,4- ranosyl)ox 6R)-5- amino)tetr	y]-13-	31 rOctober 2014	31 October 2022	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure

pyran-2-	scenarios
yl]oxy]-9-	and
ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16b-	those
tetradecallydro-14-	risks to
methyl-1H-	compartments
as-	and
indaceno[3,2-	populations
d]oxacyclododecin-7,15-	that
dione	have
CAS	not been
No:	representatively
131929-60-7	addressed
Spinosyn	in the
_	
D	EU level
(2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-2-	risk
[(6-	assessment.
deoxy-2,3,4-	Member
tri-O-	States
methyl-	shall
α-L-	ensure
mannopyranosyl)oxy]-13-	that
[[(2R,5S,6R)-5-	authorisations
(dimethylamino)tetrahydro-6-	are
methyl-2H-	subject
pyran-2-	to the
yl]oxy]-9 -	following
ethyl-2,3,8a,5a,5b,6,9,10,11,12,13,14,16a,16b-	conditions:
tetradecalydro-4,14	— Authorisation
dimethyl-1H-	shall
as-	be
indaceno[3,2-	subject
d]oxacyclododecin-7,15-	to
dione	appropriate
CAS	risk
No:	mitigation
131929-63-0	measures.
	In
	particular,
	products
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	for
	professional
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	by .
	spraying
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	appropriate
	personal
	protective
	equipment,

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	application for
	product
	authorisation
	that
	risks
	to
	professional
	users
	can
	be
	reduced
	to
	an
	acceptable
	level
	by others
	means.
	For
	products
	containing
	spinosad
	tĥat
	may
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	food
	or feed,
	Member
	States
	shall
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	need
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	and/
	or
	amended
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								residue levels (MRLs) according to Regulation (EC) No 470/2009 and/ or Regulation (EC) No 396/2005, and take any appropriate risk mitigation measures ensuring that the applicable MRLs are not exceeded.]
[^{F47} 38	Bifenthrin	name: 2-methylbip ylmethyl (1RS)- cis-3- [(Z)-2- chloro-3,3 trifluoropi enyl]-2,2-	3,3- rop-1- cyclopropa	1 February 2013	31 January 2015	31 January 2023	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the

			particula	r
			product,	
			those	
			uses or	
			exposure	;
			scenarios	
			and	
			those	
			risks to	
			environn	nental
			comparti	nents
			and	
			population	ons
			that	
			have	
			not been	
			represent	tatively
			addresse	d
			in the	
			Union	
			level	
			risk	
			assessme	ent.
			Member	
			States	
			shall	
			ensure	
			that	
			authorisa	itions
			are	
			subject	
			to the	
			following	g
			condition	ns:
				Products
				shall
				be
				authorised
				only
				for
				industrial
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				professional
				use,
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				is
				demonstrated
				in
				the
				application
				for
				product

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							that
							risks
							to
							non-
							professional
							users
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							be
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							to
							acceptable
							levels
							in
							accordance with
							Article
							5
							and
							Annex
							VI.
						_	Products
							authorised
							for
							industrial
							or
							professional
							use must
							be
							used
							with
							appropriate
							personal
							protective
							equipment,
							unless
							it
							can
							be demonstrated
							demonstrated in
							the
							application
							for
							product
							authorisation
							that
							risks
							to
							industrial
							or professional
							professional

users can be reduced to an acceptable level by other means. — Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on impermeable						
be reduced to an acceptable level by other means. — Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on	I					users
reduced to an acceptable level by other means. — Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on						can
to an acceptable level by other means. — Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on one						be
to an acceptable level by other means. — Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on one						reduced
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soil and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on						protect
and aquatic compartments. In particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on						
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particular, labels and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or or on						compartments.
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and, where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on						particular,
where provided, safety data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on on						
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data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on						provided,
sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under shelter or on						
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						impermeable

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1					hardstanding,
					or
					both,
					to
					prevent
					direct
					losses
					to
					soil
					or
					water,
					and
					that
					any
					losses
					from
					the
					application
					of
					the
					product
					shall
					be
					collected
					for
					reuse
					or
					disposal.
				_	Products
					shall
					not
					be
					authorised
					for
					the
					in
					situ
					treatment
					of
					wood
					outdoors,
					or
					for
					treatment
					of
					wood
					that
					will
					be
					either
					continually
					exposed
					to

								the weather or protected from the weather but subject to frequent wetting, unless data have been submitted demonstrating that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate
[^{F48} 39	(Z,E)- tetradeca- dienyl acetate	(9Z,12E)- 9,tadeca dien-1- yl acetate EC No: n.a. CAS No: 30507-70	1 February 2013	31 January 2015	31 January 2023	19	When assessing the application for authorisation of a product in accordance with	on tion

						Article	
						5 and	
						Annex	
						VI,	
						Member	
						States	
						shall	
						assess,	
						when	
						relevant	
						for the	
						particula	r
						particula product,	ı
						those	
						uses or	
						exposure	;
						scenarios	5
						and	
						those	
						risks to	. 1
						environn	
						comparti	nents
						and	
						population	ons
						that	
						have	
						not been	
						represent	tatively
						addresse	
						in Union	
						level	
						risk	
						assessme	ent.
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	itions
						are	
						subject	
						to the	
						following	g
						condition	i:
						<u> </u>	Labels
							for
							biocidal
							products
							containing
							(Z,E)-
							tetradeca-9,12-
							dienyl
							acetate
	1	1	l l	ļ			actiait

						shall indicate that those products shall not be used in spaces where un- packaged food or feed is kept.]
[F4940	Fenoxyca	IDMA©kg name: Ethyl [2- (4- phenoxyph EC No: 276-696-7 CAS No: 72490-01-	31 January 2015 yl]carbama	January 2023	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to environmental compartments

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				and
				populations
				that
				have
				not been
				representatively
				addressed
				in the
				Union
				level
				risk
				assessment.
				Member
				States
				shall
				ensure
				that
				authorisations
				are
				subject
				to the
				following
				conditions:
				— Appropriate
				risk
				mitigation
				measures
				shall
				be
				taken
				to
				protect
				the
				soil
				and
				aquatic
				compartments.
				In
				particular,
				labels
				and,
				where
				provided,
				safety
				data
				sheets
				of
				products
				authorised
				shall
				indicate
				that
				freshly

					treated
					timber
					shall
					be
					stored
					after
					treatment
					under
					shelter
					or
					on
					impermeable
					hardstanding
					under
					roof,
					or
					both,
					to
					prevent
					direct
					losses
					to
					soil
					or
					water,
					and
					that
					any
					losses
					from
					the
					application
					of
					the
					product
					shall
					be
					collected
					for
					reuse
					or
					disposal.
					 Products
					shall
					not
					be
					authorised
					for
					treatment
					of
					wood
					that
					will
	İ	I .		ļ	

									be used in outdoor constructions near or above water, unless data is submitted demonstrating that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk mitigation measures.]
[^{F50} 41	Nonanoic acid, Pelargonia acid	c	IBPACkg name: Nonanoic acid EC No: 203-931-2 CAS No: 112-05-0	February 2013	31 January 2015	31 January 2023	19	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI,	on tion

						Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to environmental compartments and populations that have not been representatively addressed in Union level risk assessment.]
[F51		1 October 2014	30 Septembe 2016	30 rSeptembe 2024	2 r	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular

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1	1	1	1	1			
							product,
							those
							uses or
							exposure
							scenarios
							and
							those
							risks to
							human
							populations
							and to
							environmental
							compartments
							that
							have
							not been
							representatively
							addressed
							in the
							Union
							level
							risk
							assessment.
							Member
							States
							shall
							ensure
							that
							authorisations
							of
							products
							for non-
							professional
							use are
							subject
							to the
							packaging
							packaging being
							designed
							to
							minimise
							user
							exposure,
							unless it
							can be
							demonstrated
							in the
							application
							for
							product
							authorisation
							that
							risks for
•	•	•	•	•	,	,	

								human health can be reduced to acceptable levels by other means.]
[F5242	imidaclop	[(6- chloropyr yl)methyl N-]- azolidin-2- 3	1 July 2013	30 June 2015	30 June 2023	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union

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				I	level
					risk
					assessment.
					Products
					shall
					not be
					authorised
					for
					uses in
					animal
					housings
					where
					emission
					to a
					sewage
					treatment
					plant or
					direct
					emission
					to
					surface
					water
					cannot
					be
					prevented,
					unless
					data is
					submitted
					demonstrating
					that the
					product
					will
					meet the
					requirements
					of
					Article
					5 and
					Annex
					VI, if
					necessary
					by the
					application
					of
					appropriate
					risk
					mitigation
					measures.
					Authorisations
					shall be
					subject
					to
					appropriate
					risk
			,		

					mitigation
					measures.
					In
					particular,
					appropriate
					risk
					mitigation
					measures
					shall be
					taken to
					minimise
					the
					potential
					exposure
					of
					infants
					and
					children.
					For
					products
					containing
					imidacloprid
					that may
					lead to
					residues
					in food
					or feed,
					Member
					States
					shall
					verify
					the need
					to set
					new or
					amended
					existing
					maximum
					residue
					levels
					(MRLs)
					according
					to
					Regulation
					(EC) No
					470/2009
					or
					Regulation
					(EC) No
					396/2005,
					and take
					any .
					appropriate
					risk
1	ı	ı	ı	' '	

						mitigation measures ensuring that the applicable MRLs are not exceeded.]
[F5343 Abamecti	active substance shall momply with rall the following ABUMESIIN TO AVERNECTOR Bla: If the second se	: Apartecting annimum 9,00 st. Avermecting March 1-2 st. St. March 1-2 st. St. St. St. St. St. St. St. St. St. S	6E,22Z)- 6S,6'R,8R, 1,24- 5',11,13,22 -2- yclo[15.6.1	-	0R,21R,24	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular specific, those uses or exposure scenarios and those 1054 16,22-risks to human populations and to environmental compartments that have not been representatively addressed in the Union level

	I	ļ-				risk
	a	rabino-				assessment.
		exopyrano	sv1)-3-			Products
)-	-3 / -			applied
		nethyl-				in such a
	α					way that
	I	_				emission
	2	rabinohexo	nyranosid	۵		to a
		i aomonex C	ppyranosiu	C		sewage
		To:				treatment
		65-610-3				plant
		AS				cannot
		No:				be
		5195-55-3				prevented
	0 Avermectir					shall
l I		ı				not be
	B_{1b} :	TIDA C				authorised
		UPAC				
		ame:	(E 007)			for those
	(10E,14E,1	bE,22Z)-	100 100 0	00 010 01	application
				128,138,2	0R,21R,24	
		ihydroxy-0				which
		opropyl-5				the
		tramethyl-				Union
		xo-3,7,19-				level
	tı	ioxatetrac	yclo[15.6.1	$1.1^{4,8}.0^{20,24}$]pentacosa	-riok14,16,22- assessment
	te	etraene-6-				
	S	piro-2'-				showed
	(:	5',6'-				unacceptable
	d	ihydro-2'H	[-			risks,
	p	yran)-12-				unless
	y	1				data are
	2	,6-				submitted
	d	ideoxy-4-				demonstrating
)-				that the
	(2	2,6-				product
	d	ideoxy-3-				will
)-				meet the
	n	nethyl-				requirements
	α	-				of
	I	ļ-				Article
		rabino-				5 and
	h	exopyrano	syl)-3-			Annex
)-				VI, if
	n	nethyl-				necessary
	α	_				by the
	I	ļ -				application
	a	rabinohexo	pyranosid	e		of
		C	-			appropriate
		lo:				risk
	2	65-611-9				mitigation
						measures.
						Authorisations
						shall be

		N 6	CAS Vo: 5195-56-4				subject to appropriate risk mitigation measures. In particular, appropriate risk mitigation measures shall be taken to minimise the potential exposure of infants and children.]
[F5444	4,5- 2Dichloro- octylisoth -ône EC No: 264-843-8 CAS No: 64359-81	iazol-3(2 <i>F</i> .	2013	30 June 2015	30 June 2023	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, when relevant for the particular product, those uses or exposure scenarios and those

				risks to
				human
				populations
				and to
				environmental
				compartments
				that
				have
				not been
				representatively
				addressed
				in the
				Union
				level
				risk
				assessment.
				Products
				shall
				not be
				authorised
				for
				treatment
				of wood
				that
				will be
				continually
				exposed
				to the
				weather,
				protected
				from the
				weather
				but
				subject
				to
				frequent
				wetting
				or in
				contact
				with
				fresh
				water,
				unless
				data
				have
				been
				submitted
				demonstrating
				that the
				product will
				meet the
				requirements

				of	
				Article	
				5 and	
				Annex	
				VI, if	
				necessary	V
				by the	,
				application	on
				of	011
				appropria	ate
				risk	
				mitigatio	n
				measures	
				Member	•
				States	
				shall	
				ensure	
				that	
				authorisa	tions
				are	
				subject	
				to the	
				following	g
				condition	ns:
				(1)	for
					products
					authorised
					for
					industrial
					or
					professional
					use,
					safe
					operational
					procedures
					shall
					be
					established,
					and
					products
					shall
					be
					used
					with
					appropriate
					personal
					protective
					equipment
					unless
					it
					can
					be
				I	demonstrated

1		1				in
						the
						application
						for
						product
						authorisation
						that
						risks
						to industrial
						or
						professional
						users
						can
						be
						reduced
						to
						an
						acceptable level
						by
						other
						means;
					(2)	labels
						and,
						where
						provided,
						safety data
						sheets
						of
						products
						authorised
						shall
						indicate
						that
						freshly
						treated timber
						shall
						be
						stored
						after
						treatment
						under
						shelter
						or on
						impermeable
						hard
						standing
						under
						roof,

								or both, to prevent direct losses to soil or water, and that any losses from the application of the product shall be collected for reuse or disposal.]
[F545	Creosote	Creosote EC No: 232-287-5 CAS No: 8001-58-5	Grade B or Grade C creosote as Specified in European Standard EN 13991:200	1 May 2013	30 April 2015	30 April 2018	8	Biocidal products containing creosote may only be authorised for uses where the authorising Member State, based on an analysis regarding the technical and economic feasibility of substitution which

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						it shall
						request
						from the
						applicant,
						as well
						as on
						any
						other
						information
						available
						to it,
						concludes
						that no .
						appropriate
						alternatives
						are
						available.
						Those
						Member
						States
						authorising
						such
						products
						in their
						territory
						shall
						no later
						than
						31 July
						2016
						submit
						a report
						to the
						Commission
						justifying
						their
						conclusion
						that
						there
						are no
						appropriate
						alternatives
						and
						indicating
						how the
						development
						of
						alternatives
						is
						promoted.
						The
						Commission
						will

make these reports publicly available. The active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those	,	1	ı	1	ı .	ı		1 1
reports publicly available. The active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
publicly available. The active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
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available. The active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(1) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
The active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								available
active substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
substance is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
is to be subject to a comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
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comparative risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
risk assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
assessment in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								risk
in accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
accordance with the second subparagraph of Article 10(5)(i) before its inclusion in this Annex is renewed. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,								
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						shall	
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						authorisa	ntions
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						subject	
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						to the	
						following	g
						condition	
						(1)	Creosote
							may
							only
							be
							used
							under
							the
							conditions
							mentioned
							in
							point
							2
							of.
							of
							the
							second
							column
							of
							entry
							No
							31
							in
							Annex
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				XVII
				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
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			(2)	Council Directive 76/769/ EEC and Commission Directives 91/155/ EEC, 93/67/ EEC, 93/105/ EC and 2000/21/ ECd. Creosote shall not be used for the treatment of wood intended for those uses referred to in point 3 of the second column of entry No 31 in Annex XVII to Regulation (EC) No 1907/2006.
			(3)	Appropriate risk

						mitigation
						measures
						shall
						be
						taken
						to
						protect
						workers,
						including
						down-
						stream
						users,
						from
						exposure
						during
						treatment
						and
						handling
						of
						treated
						wood
						in
						compliance
						with
						Regulation
						(EC)
						No
						1907/2006
						and
						Directive
						2004/37/
						EC
						of
						the
						European
						Parliament
						and
						of
						the
						Council
						of 29
						April 2004
						on the
						protection of
						workers
						from
						the
						risks
						related
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				(4)	to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/ EEC). Appropriate risk mitigation measures shall be taken to protect the soil and aquatic compartments. In particular, labels and, where provided, safety data
					In particular, labels and, where provided, safety

								timber must be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil or water and that any losses must be collected for reuse or disposal.]
[^{F55} 46	Bacillus thuringies subsp. israelensi Serotype H14, Strain AM65-52	No relevant impurities	October 2013	30 Septembe 2015	30 rSeptembe 2023	18 r	When assessing the application for authorisation of a product in accordant with Article 5 and Annex VI, Member States shall	on tion

						assess,
						where
						relevant
						for the
						particular
						product,
						those
						uses or
						exposure scenarios
						and
						those
						risks to
						human
						populations
						and to
						environmental
						compartments
						that
						have
						not been
						representatively
						addressed
						in the
						Union
						level
						risk
						assessment.
						Products
						authorised
						for
						professional
						use shall
						be used
						with
						appropriate
1						personal
1						protective
						equipment,
1						unless it
1						can be
						demonstrated
1						in the
						application
1						for
1						product
						authorisation
						that
1						risks to
						professional
1						users
						can be
1						reduced
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acceptable level by other means. For products containing Bacillus thuringiensis subsp. israelensis Serotype H14, Strain AM65-52 that may lead to residues in food or feed, Member States shall verify the need to set new or to amend existing maximum residue levels (MRLs) according to Regulation (EC) No 470/2009 or Regulation (EC) No 470/2009 or Regulation (EC) No 336/2005, and take any appropriate risk mitigation measures ensuring that the		1	1	1			1	to an
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								MRLs are not exceeded.]
[F5647	fipronil	(±)-5- amino-1- (2,6- dichloro- α,α,α,- trifluoro- p- tolyl)-4- trifluorom carbonitri (1:1) EC No: 424-610-5 CAS No: 120068-3	le 5	1 October 2013	2015	30 rSeptembe 2023	18 r	Only professional use indoors by application in locations normally inaccessible after application to man and domestic animals has been addressed in the Union level risk assessment. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or

								exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment.]
[F5748	lambda- cyhalothr	imnass of (R)-α-cyano-3-phenoxyb (1S,3S)-3 [(Z)-2-chloro-3,3trifluoropidimethyloand (S)-α-cyano-3-phenoxyb (1R,3R)-3 [(Z)-2-chloro-3,3trifluoropidimethyloand)	enzyl 3,3- ropenyl]-2 yclopropa 8,3- ropenyl]-2 yclopropa	necarboxy	2015	30 rSeptembe 2023	18 r	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human

and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Products applied in such a way that emission to a sewage treatment plant cannot be prevented shall not be authorised, unless data are submitted demonstrating that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate risk		1	1			ı	populations
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								to Regulation (EC) No 470/2009 or Regulation (EC) No 396/2005, and take any appropriate risk mitigation measures ensuring that the applicable MRLs are not exceeded.]
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							indoor
							treatments
							resulting
							in
							sewage
							treatment
							plant .
							emissions
							of the
							scale for
							which
							the
							Union
							level
							risk
							assessment
							showed
							unacceptable
							risks,
							unless
							data are
							submitted
							demonstrating
							that the
							product
							will
							meet the
							requirements
							of
							Article
							5 and
							Annex
							VI, if
							necessary
l	l	l	1	I		ļ	iiooossai y

								by the application of appropriate risk mitigation measures.]
[F5950	Copper hydroxide	Copper (II) hydroxide EC No: 243-815-9 CAS No: 20427-59)	1 February 2014	31 January 2016	31 January 2024	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level

						risk	
						assessme	ent.
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	itions
						are	
						subject	
						to the	
						following	σ
						condition	IS.
						(1)	Products
						(-)	shall
							not
							be
							authorised
							for
							application
							by
							dipping,
							unless
							data
							have
							been
							submitted
							in
							the
							application
							for
							product
							authorisation
							demonstrating
							that
							that
							application
							meets
							the
							requirements
							of
							Article
							5
							and
							Annex
							VI,
							if
							necessary
							by
							the
							application
							of
							appropriate
1	T.	ı	ı	ا ا	'		

					risk mitigation measures.
				(2)	For
					products authorised
					for
					industrial
					use, safe
					operational
					procedures shall
					be
					established, and
					products
					shall be
					used
					with
					appropriate personal
					protective
					equipment unless
					it
					can be
					demonstrated
					in the
					application
					for product
					authorisation
					that risks
					to
					industrial
					users can
					be
					reduced to
					an
					acceptable level
					by
					other means.
					Labels
					and,

1						where
						provided,
						safety
						data
						sheets
						of
						products
						products
						authorised
						shall
						indicate
						that
						freshly
						treated
						timber
						shall
						be
						stored
						after
						treatment
						under
						shelter
						or
						on
						impermeable
						hard
						standing,
						or
						both,
						to
						prevent
						direct
						losses
						to
						soil
						or
						water,
						and
						that
						any
						losses
						from
						the
						application
						of
						the
						product
						shall
						be
						collected
						for
						reuse
						or
						disposal.
ı	1	I	1 1	I	1 1	and pobar.

51	Copper (II)	Copper (II)	976 g/kg	1 February	31 January	31 January	8	When	meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate mitigation measures.
								(4)	shall not be authorised for treatment of wood that will be used in outdoor constructions near or above water, unless data is submitted to demonstrate that the product will

FC No:	for
EC No:	authorisation
CAS	of a
No:	product
1317-38-0	in
	accordance
	with
	Article
	5 and
	Annex
	VI,
	Member
	States
	shall
	assess,
	where
	relevant
	for the
	particular
	product,
	those
	uses or
	exposure
	scenarios
	and
	those
	risks to
	human
	populations
	and to
	environmental
	compartments
	that
	have
	not been
	representatively
	addressed
	in the
	Union
	level
	risk
	assessment.
	Member
	States
	shall
	ensure
	that
	authorisations
	are
	subject
	to the
	following
	conditions:

				(1)	For
					products
					authorised
					for
					industrial
					use,
					safe
					operational
					procedures
					shall
					be
					established,
					and
					products
					shall
					be
					used with
					appropriate
					personal protective
					equipment
					unless
					it
					can
					be
					demonstrated
					in
					the
					application
					for
					product
					authorisation
					that
					risks
					to
					industrial
					users can
					be
					reduced
					to
					an
					acceptable
					level
					by
					other
					means.
				(2)	Labels
					and,
					where
					provided,
					safety

			data sheets of products authorised shall indicate that freshly treated timber shall be stored after treatment under
			shelter or on impermeable hard standing, or both, to prevent direct losses to soil or water, and
		(3)	that any losses from the application of the product shall be collected for reuse or disposal. Products shall not

							be
							authorised
							for
							treatment
							of
							wood
							that
							will
							be
							used
							in
							outdoor
							constructions
							near
							or
							above
							water
							or
							for
							the
							treatment
							of
							wood
							in
							contact
							with
							fresh
							water,
							unless
							data
							is
							submitted
							to
							demonstrate
							that
							the
							product
							will
							meet
							the
							requirements
							of
							Article
							5
							and
							Annex
							VI,
							if
							necessary
							hy
							by
							the
							application
							of
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								appropriate mitigation measures.
52	Basic copper carbonate	Copper(II carbonate copper(II) hydroxide (1:1) EC No: 235-113-6 CAS No: 12069-69	5	1 February 2014	31 January 2016	31 January 2024	8	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Member States shall

					ensure	
					that	
					authorisa	tions
					are	
					subject	
					to the	
					following	<u>y</u>
					condition	is:
					(1)	Products
					(-)	shall
						not
						be
						authorised
						for
						application
						by
						dipping,
						unless
						data
						have
						been
						submitted
						in
						the
						application
						for
						product
						authorisation
						demonstrating
						that
						that
						application
						meets
						the
						requirements
						of
						Article
						5
						and
						Annex
						VI,
						if
						necessary
						by
						the
						application
						of
						appropriate
						risk
						mitigation
						measures.
					(2)	For
						products
'	'	•	. '	'		

					authorised
					for
					industrial
					use, safe
					operational
					procedures
					shall
					be
					established, and
					products
					shall
					be
					used
					with
					appropriate personal
					protective
					equipment
					unless
					it
					can be
					demonstrated
					in
					the
					application for
					product
					authorisation that
					risks
					to
					industrial
					users
					can be
					reduced
					to
					an
					acceptable level
					by
					other
				(2)	means.
				(3)	Labels and,
					where
					provided,
					safety
					data
					sheets

						of
						products
						authorised
						shall
						indicate
						that
						freshly
						treated
						timber
						shall
						be
						stored
						after
						treatment
						under
						shelter
						or
						on
						impermeable
						hard
						standing
						standing,
						or
						both,
						to
						prevent
						direct
						losses
						to
						soil
						or
						water,
						and
						that
						any
						losses
						from
						the
						application
						of
						the
						product
						shall
						be
						collected
						for
						reuse
						or
						disposal.
					(4)	Products
						shall
						not
						be
						authorised
	l	I	l			addioibod

							for
							treatment
							of
							wood
							that
							will
							be
							used
							in
							outdoor
							constructions
							near
							or
							above
							water,
							or
							for
							the
							treatment
							of
							wood
							in
							direct
							contact
							with
							fresh
							water,
							unless
							data
							is
							submitted
							to
							demonstrate
							that
							the
							product
							will
							meet
							the
							requirements
							of
							Article
							ATUCIE
							5
							and
							Annex
							VI,
							if
							necessary
							by
							the
							nie
							application
							application of
							appropriate
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								mitigation measures.]
[^{F60} 53	bendiocan	dimethylbenzodioxylmethylcar CAS-No: 22781-23-EC No: 245-216-8	tol-4- bamate	1 February 2014	31 January 2016	31 January 2024	18	The Union level risk assessment did not address all potential uses, but concerned, for example, application by professionals only, and excluded contact with feed or food and direct application on soil. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product,

				those	
				uses or	
				exposure	
				scenarios	1
				and	•
				those	
				risks to	
				human	
				population	ons
				and to	
				environm	
				compartn	nents
				that	
				have	
				not been	
				represent	atively
				addressed	1
				in the	4
				Union	
				level	
				risk	
					4
				assessme	nt.
				Member	
				States	
				shall	
				ensure	
				that	
				authorisa	tions
				are	
				subject	
				to the	
				following	ס
				condition	ic. ⊃
					Products
					shall
					not
					be
					used
					for
					the
					treatment
					of
					surfaces
					that
					are
					prone
					to
					frequent
					wet
					cleaning,
					other
					than
				J	crack

1						and
						crevice
						or
						spot
						treatment,
						unless
						data
						are
						submitted
						demonstrating
						that
						the
						product
						will
						meet
						the
						requirements
						of
						Article
						5
						and
						Annex
						VI,
						if
						necessary
						by
						the
						application
						of
						appropriate
						risk
						mitigation
						measures. Products
						authorised
						for
						industrial
						or
						professional
						use
						shall
						be
						used
						with
						appropriate
						personal
						protective
						equipment,
						unless
						it
						can
						be
						demonstrated
ı	I	1	1			

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									in the
									application for
									product authorisation
									that
									risks to
									industrial or
									professional
									users can
									be reduced
									to an
									acceptable
									level by
									other means.
									Where relevant,
									measures
									shall be
									taken to
									prevent foraging
									bees
									from gaining
									access to
									treated
									nests by
									removing the
									combs or
									blocking
									the nest entrances.]
[^{F61} 54	methyl		2975 g/kg	1 May	30 April	30 April	19	The	_
	nonyl ketone	one		2014	2016	2024		Union level	
								risk	

1	CAS			ı]	assessment
	No:					
	112-12-9					was based on
	EC No:					indoor
	203-937-5	-				
	203-937-3)				use by
						non-
						professional
						users.
						When .
						assessing
						the
						application
						for
						authorisation
						of a
						product
						in
						accordance
						with
						Article
						5 and
						Annex
						VI,
						Member
						States
						shall
						assess,
						where
						relevant
						for the
						particular
						product, those
						uses or
						exposure scenarios
						and
						those
						risks to
						human
						populations
						and to
						environmental
						compartments
						that
						have
						not been
						representatively
						addressed
						in the
						Union
						level
ı	1 1		ı İ	l	I	

								risk assessment.]
[F6255	margosa extract	IUPAC name: Not applicable CAS-No: 84696-25 EC No: 283-644-Description margosa extract from the kernels of Azadirach indica extracted with water and further processed with organic solvents	-3 7 on:	1 May 2014	30 April 2016	30 April 2024	18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Member States shall ensure

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								that authorisations are subject to appropriate risk mitigation measures for the protection of surface water, sediment and non- target arthropods.]
[^{F63} 56	Hydrochle	oHydrochlo acid CAS No: not applicable EC No: 231-595-7	‡	1 May 2014	30 April 2016	30 April 2024	2	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to

ı	ı	i	ı	i	i .	
						environmental
						compartments
						that
						have
						not been
						representatively
						addressed
						in the
						Union
						level
						risk
						assessment.
						Member
						States
						shall
						ensure
						that
						authorisations
						of
						products
						for non-
						professional
						use are
						subject
						to the
						packaging
						being
						designed
						to
						minimise
						user
						exposure,
						unless it
						can be
						demonstrated
						in the
						application
						for
						product
						authorisation
						that
						risks for
						human
						health
						can be
						reduced
						to
						acceptable
						levels
						by other
						means.]
	1	·	l.	·		<u> </u>

[^{F64} 57	flufenoxu		960 g/kg	1 Fohmom	31	31	8	Flufenoxuron
		chloro-	1.1	February	January	January		shall be
		alpha,alpl	ia,aipna-	2014	2016	2017		subject
		trifluoro-						to a
		para-	2					comparative
		tolyloxy)-	Z- 11 2					risk
		fluorophe	nyi]-3-					assessment
		(2,6-						in
			enzoyl)ure	a				accordance with the
		EC No: 417-680-3	•					second
		CAS	•					subparagraph
		No:						of
		101463-6	0 8					Article
		101403-0	9- 0					10(5)
								(i) of
								Directive
								98/8/EC
								before
								its
								inclusion
								in this
								Annex is
								renewed.
								The
								Union
								level
								risk
								assessment
								addressed
								treatment
								of wood
								which
								will not be
								used in
								animal
								housing
								or come
								into
								contact
								with
								food or
								feed.
								Products
								shall
								not be
								authorised
								for
								uses or
								exposure
								scenarios
								that

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have not been representatively addressed in the Union level risk assessment. Member States shall ensure that authorisations are subject to the following conditions: (1) Products shall only be used for treatment of wood intended for didoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used with the products shall be used shall be used with the products shall be used with the products and products shall be used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used with the products shall shall the used the products shall shall the used the products shall shall the used the products shall shall the used the products shall shall the used the products shall shall the used the products shall shall the used the products shall shall the used the products						
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(1) Products shall only be used for treatment of wood intended for indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used					iollowing	5
shall only be used for treatment of wood intended for indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						
only be used for treatment of wood intended for indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used					(1)	
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intended for indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						
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indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						intended
indoor use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						for
use. (2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						
(2) For products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used						
products authorised for industrial or professional use safe operational procedures shall be established, and products shall be used					(2)	
authorised for industrial or professional use safe operational procedures shall be established, and products shall be used					(2)	
for industrial or professional use safe operational procedures shall be established, and products shall be used						products
industrial or professional use safe operational procedures shall be established, and products shall be used						
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professional use safe operational procedures shall be established, and products shall be used						industrial
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						personal
						protective
						equipment
						unless
						it
						can
						be
						demonstrated
						in
						the
						application for
						product
						authorisation
						that
						risks
						to
						industrial
						or
						professional
						users
						can
						be
						reduced
						to
						an
						acceptable
						level
						by
						other
					(2)	means.
					(3)	Appropriate risk
						mitigation
						measures
						shall
						be
						taken
						to
						protect
						the
						soil
						and
						aquatic
						compartments.
						In
						particular,
						labels
						and, where
						provided,
						safety
1						Builty

				data
				sheets
				of
				authorised
				products
				shall
				indicate
				that
				freshly
				treated
				timber
				shall
				be
				stored
				after
				treatment
				under
				shelter
				or
				on
				impermeable
				hard
				standing,
				or
				both,
				to
				prevent
				direct
				losses
				to
				soil
				or
				water,
				and
				that
				any
				losses
				from
				the
				application
				of
				the
				product
				shall
				be
				collected
				for
				reuse
				or
				disposal.]

[F6558	DDACarb	heate tion	Dry	1	Not	31	8	The
1 30		nass of	weight:	February				Union
	l N	N,N-	740 g/kg		11	2023		level
		Didecyl-						risk
		N,N-						assessment
			mmonium					did not
		Carbonate						address
		ınd						all
		N,N-						potential
		Oidecyl-						uses;
		N,N-						certain
			mmonium					uses,
		Bicarbona						such as
		EC No:						use by
		151-900-9)					non-
		CAS						professionals
	l N	No:						were
	8	394406-7	6-9					excluded.
								When
								assessing
								the
								application
								for
								authorisation
								of a
								product
								in
								accordance
								with
								Article
								5 and
								Annex
								VI,
								Member
								States
								shall
								assess, where
								relevant
								for the
								particular
								product,
								those
								uses or
								exposure
								scenarios
								and
								those
								risks to
								human
								populations
								and to
								environment

			compartre that have not been represent addressed in the Union level risk assessment Member States shall ensure that authorisa are subject to the following condition (1)	ent. gens: for industrial users safe operational procedures shall be established, and products shall be used with appropriate personal protective equipment, unless it can be demonstrated in the application for
				for product authorisation that

risks can be reduced to an acceptable level by other means; (2) labels and, where provided, safety data sheets of products authorised shall indicate that industrial application shall be conducted within a contained area or on impermeable hard standing with bunding, that freshly treated timber shall be stored after treatment under shelter or on on on on on on on on on on on on on	1	I	I	I			ı	
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				or
				above
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				or
				for
				treatment
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				dipping
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				will
				be
				continually
				exposed
				to
				the
				weather
				or
				subject
				to
				frequent
				wetting,
				unless
				data
				is
				submitted
				to
				demonstrate
				that
				the
				product
				will
				meet
				the
				requirements
				of
				Article
				ATUCIE
				5
				and
				Annex
				VI,
				if
				necessary
				by
				the
				annlication
				application
				of
				appropriate
				mitigation
				measures.]
	 L	<u> </u>		

[F6659	cis-	cis-	801 g/kg	1	30	30	19	The
	tricos-9-	Tricos-9-		October	Septembe	rSeptembe	r	Union
	ene	ene; (Z)-		2014	2016	2024		level
	(Muscalu	reDricos-9-						risk
		ene						assessment
		EC No:						did not
		248-505-	7					address
		CAS						all
		No:						potential
		27519-02	-4					uses and
								exposure
								scenarios;
								certain
								uses and
								exposure
								scenarios,
								such as
								outdoor
								use and
								exposure
								of food
								or feed,
								were
								excluded.
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								of a
								product
								in
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								Article
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								VI,
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								States
								shall
								assess,
								where
								relevant
								for the
								particular
								product,
								those
								uses or
								exposure
								scenarios
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those risks to human populations and to environmental compartments that that have not been representatively addressed in the Union level risk assessment. For products containing cistricos-9- ene that may lead to residues in food or feed, Member States shall verify the need to set new or to amend existing maximum residue levels (MRLs) according to Regulation (EC) No 470/2009 or Regulation (EC) No 396/2005, and take any	1		1	ı	1	1	I	Lat
human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. For products containing cis- tricos-9- ene that may lead to residues in food or feed, Member States shall verify the need to set new or to amend existing maximum residue levels (MRLs) according to Regulation (EC) No 470/2009 or Regulation (EC) No 396/2005, and take								
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470/2009 or Regulation (EC) No 396/2005, and take								(FC) No
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Regulation (EC) No 396/2005, and take								
(EC) No 396/2005, and take								
396/2005, and take								
and take								(EC) NO
								any

							appropriate risk mitigation measures ensuring that the applicable MRLs are not exceeded.]
[F6760	hydrogen cyanide	hydrogen cyanide EC No: 200-821-6 CAS No: 74-90-8	1 October 2014	30 Septembe 2016	30 rSeptembe 2024	8, 14 rand 18	When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the

						Union	
						level	
						risk	
						assessme	ent
						Member	
						States	
						shall	
						ensure	
						that	··
						authorisa	itions
						of	
						products	
						for use	
						as a	
						fumigant	
						are	
						subject	
						to the	
						following	g
						condition	
						(1)	product
							shall
							only
							be
							supplied
							to
							and
							used
							by
							professionals
							adequately
							trained
							to
							use
							them;
						(2)	safe
						•	operational
							procedures
							during
							fumigation
							and
							venting
							shall
							be
							established
							for
							operators
							and
							bystanders;
						(3)	products
						(3)	shall
							be
							used
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				(4)	with adequate personal protective equipment including, where appropriate, self-contained breathing apparatus and gastight clothing; reentry into fumigated spaces shall be prohibited until the air concentration has reached safe levels for operators and bystanders by
				(5)	ventilation; exposure during and after ventilation shall be prevented from exceeding safe levels for operators and

				(6)	bystanders by the establishment of a supervised exclusion zone; prior to fumigation, any food and any porous material with a potential to absorb the active substance, except wood intended to be treated, shall either be removed from the space to be
					from the space to

								be fumigated shall be protected against accidental ignition.]
[F6861	Didecyldi Chloride; DDAC	nhehiylam Didecyl- N,N- dimethyla Chloride EC No: 230-525-2 CAS No: 7173-51-2	weight: 870 g/kg mmonium	1 February 2015	31 January 2017	31 January 2025	8	The Union level risk assessment did not address all potential uses and exposure scenarios; certain uses and exposure scenarios, such as use by non-professionals and exposure of food or feed, were excluded. When assessing the application for authorisation of a product in accordance with Article 5 and Annex VI, Member States shall

						assess,	
						where	
						relevant	
						for the	
						particula	r
						product,	
						those	
						uses or	
						exposure)
						scenarios	
						and	
						those	
						risks to	
						human	
						population	ons
						and to	
						environn	nental
						comparti	
						that	
						have	
						not been	
						represen	
						addresse	d
						in the	
						Union	
						level	
						risk	
						assessme	ent.
						Member	
						States	
						shall	
						ensure	
						that	
						authorisa	ations
						are	
						subject	
						to the	
						followin	g
						condition	ns:
						(1)	For
							industrial
							or
							professional
							users
							safe
							operational
							procedures
							shall
							be
							established,
							and
							products
							shall
ı	l	I	I		·		

							(3)	the application for product authorisation that risks can be reduced to an acceptable level. Labels and, where provided, safety data sheets of products authorised shall indicate that industrial or professional application shall be conducted within a contained area or on impermeable hard standing with bunding, and that freshly treated timber shall be stored
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				after treatment on impermeable hard
				standing to prevent direct losses to soil
				or water, and that any losses from
				the application of the product shall
				be collected for reuse or disposal.
				Products shall not be authorised for treatment
				of wood that will be in
				contact with fresh water or used
				for outdoor constructions

								near or above water, continually exposed to the weather or subject to frequent wetting, unless data is submitted to demonstrate that the product will meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate mitigation measures.]
[^{F69} 62	pyriproxy	phenoxyp (RS)-2- (2- pyridylox ether EC No: 429-800-1	February 2015	31 January 2017	January 2025	18	The Union level risk assessme did not address all potential uses and	nt

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	osure arios;
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	essionals,
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Artic	
5 and	
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Men	nber
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			in the Union level
			risk assessment.
			For products containing
			pyriproxyfen that may
			lead to residues
			in food or feed,
			Member States
			shall verify
			the need to set
			new or to amend
			existing maximum
			residue levels
			(MRLs) in
			accordance with
			Regulation (EC) No 470/2009
			or Regulation (EC) No
			396/2005, and take
			any appropriate risk
			mitigation measures
			ensuring that the
			applicable MRLs
			are not exceeded.
			Member
			States shall

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						ensure	
						that	4:
						authorisa	tions
						are	
						subject	
						to the	
						following	3
						condition	
						(1)	Products
							authorised
							for
							professionals
							shall
							be
							used
							with
							appropriate
							personal
							protective
							equipment,
							unless
							it
							can
							be
							demonstrated
							in
							the
							application
							for
							product
							authorisation
							that
							risks
							can
							be
							reduced
							to
							an
							acceptable
							level
							by other
							other
						(2)	means. Products
						(2)	
							shall
							not be
							authorised
							for
							direct
							use
							on surface
1	1	1					Surface

[^{F70} 63	diflubenz	u to(1 - chlorophe	960 g/kg enyl)-3-	1 February 2015	31 January 2017	31 January 2025	18	The Union level	treatment site.]
								(3)	water, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level. Products intended to be used in waste treatment facilities shall be subject to appropriate risk mitigation measures to avoid contamination of the area outside the waste

(2,6-	1				I	risk
	enzoyl)ure	a				assessment
	Clizoyijuic	a				
EC No:						did not
252-529-)					address
CAS						all
No:						potential
35367-38	5-5					uses and
						exposure
						scenarios;
						certain
						uses and
						exposure
						scenarios,
						such as
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						use, use
						by non-
						professionals,
						and
						exposure
						of
						livestock
						were
						excluded.
						When
						assessing
						the
						application
						for
						authorisation
						of a
						product
						in
						accordance
						with
						Article
						5 and
						Annex
						VI,
						Member
						States
						shall
						assess,
						where
						relevant
						for the
						particular
						product,
						those
						uses or
						exposure
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							those
							risks to
							human
							populations
							and to
							environmental
							compartments
							that
							have
							not been
							representatively
							addressed
							in the
							Union
							level
							risk
							assessment.
							For
							products
							containing
							diflubenzuron
							that may
							lead to
							residues
							in food
							or feed,
							Member
							States
							shall
							verify
							the need
							to set
							new
							or to
							amend
							existing
							maximum
							residue
							levels
							(MRLs)
							in
							accordance
							with
							Regulation
							(EC) No
							470/2009
							or
							Regulation
							(EC) No
							396/2005,
							with
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							consideration
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				PCA,	
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				risk	
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				measures	
				ensuring	
				that the	
				applicabl	le
				MRLs	
				are not	
				exceeded	1
				Member	
				States	
				shall	
				ensure	
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				authorisa	itions
				are	
				subject	
				to the	
				following	g
				condition	ns
				unless it	
				can be	
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				application	on
				for	OII
				product	
				authorisa	4:
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				that the	
				risks	
				can be	
				reduced	
				to an	
				acceptab	le
				level:	
				(1)	Professional
				•	users
					shall
					wear
					appropriate
					personal
					protective
					protective
				(2)	equipment.
				(2)	Product
					information

								(3)	shall include the requirement that products shall only be used on dry manure, and that the manure must undergo complete aerobic composting by professionals prior to application on arable land. Products shall not be used in water systems.]
[^{F71} 64	Alkyl (C ₁₂₋₁₆) dimethylle ammoniu chloride; C ₁₂₋₁₆ - ADBAC	napplicable	2	1 February 2015	31 January 2017	31 January 2025	8	The Union level risk assessme did not address all potential uses and exposure scenarios certain uses and	

					exposure
					scenarios,
					such as
					use by
					non-
					professionals
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					exposure
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					excluded.
					When .
					assessing
					the
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					of a
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					Annex
					VI,
					Member
					States
					shall
					assess,
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					relevant
					for the
					particular
					product,
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					uses or
					exposure
					scenarios
					and
					those
					risks to
					human
					populations
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					environmental
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					not been
					representatively
			ļ	l	addressed

in the Union level risk assessment. Member States shall censure that authorisations are subject to the following conditions: (1) For industrial or professional users safe operational procedures shall be established, and products shall be used with appropriate personal protective equipment, unless it can be demonstrated in the application for product authorisation that risks can be reduced						
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			(2)	to an acceptable level by other means. Products shall not be used for treatment of wood with which children may enter in direct contact, unless it can be demonstrated in the application for product authorisation that risks can be reduced to an acceptable level. Labels and,
			(3)	Labels and, where provided, safety data sheets of products

authorised shall indicate that industrial or professional application shall be conducted within a contained area or on impermeable hard standing with bunding, and that freshly treated timber shall be stored after treatment on impermeable hard standing to or on impermeable hard standing with bunding, and that freshly treated timber shall be stored after treatment on impermeable hard standing to or or impermeable hard standing to or or impermeable hard standing to or or water, and direct losses to soil or or water, and that any losses from the application of the					
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						not
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Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

								meet the requirements of Article 5 and Annex VI, if necessary by the application of appropriate mitigation measures.]
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- a [F2[F3For the implementation of the common principles of Annex VI, the content and conclusions of assessment reports are available on the Commission website: http://ec.europa.eu/comm/environment/biocides/index.htm]
- b [F4The purity indicated in this column was the minimum degree of purity of the active substance used for the evaluation made in accordance with Article 11. The active substance in the product placed on the market can be of equal or different purity if it has been proven technically equivalent with the evaluated substance.
- c For products containing more than one active substance covered by Article 16(2), the deadline for compliance with Article 16(3) is that of the last of its active substances to be included in this Annex. For products for which the first authorisation has been granted later than 120 days before the deadline for compliance with Article 16(3) and a complete application has been submitted for mutual recognition in accordance with Article 4(1) within 60 days of the granting of the first authorisation, the deadline for compliance with Article 16(3) in relation to that application is extended to 120 days after the date of reception of the complete application for mutual recognition. For products for which a Member State has proposed to derogate from mutual recognition in accordance with Article 4(4), the deadline for compliance with Article 16(3) is extended to 30 days after the date of the Commission Decision adopted in accordance with the second subparagraph of Article 4(4).]
- **d** [F5OJ L 396, 30.12.2006, p. 1.
- e OJ L 158, 30.4.2004, p. 50.]]]

Textual Amendments

- **F1** Inserted by Commission Directive 2006/140/EC of 20 December 2006 amending Directive 98/8/EC of the European Parliament and of the Council to include sulfuryl fluoride as an active substance in Annex I thereto (Text with EEA relevance).
- **F2** Substituted by Commission Directive 2007/69/EC of 29 November 2007 amending Directive 98/8/EC of the European Parliament and of the Council to include difethialone as an active substance in Annex I thereto (Text with EEA relevance).
- F3 Substituted by Commission Directive 2012/43/EU of 26 November 2012 amending certain headings of Annex I to Directive 98/8/EC of the European Parliament and of the Council (Text with EEA relevance).
- **F4** Inserted by Commission Directive 2012/43/EU of 26 November 2012 amending certain headings of Annex I to Directive 98/8/EC of the European Parliament and of the Council (Text with EEA relevance).
- **F5** Inserted by Commission Directive 2011/71/EU of 26 July 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include creosote as an active substance in Annex I thereto (Text with EEA relevance).
- **F6** Inserted by Commission Directive 2009/84/EC of 28 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include sulfuryl fluoride as an active substance in Annex I thereto (Text with EEA relevance).

- F7 Inserted by Commission Directive 2007/20/EC of 3 April 2007 amending Directive 98/8/EC of the European Parliament and of the Council to include dichlofluanid as an active substance in Annex I thereto (Text with EEA relevance).
- **F8** Inserted by Commission Directive 2008/15/EC of 15 February 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include clothianidin as an active substance in Annex I thereto (Text with EEA relevance).
- **F9** Inserted by Commission Directive 2007/69/EC of 29 November 2007 amending Directive 98/8/EC of the European Parliament and of the Council to include difethialone as an active substance in Annex I thereto (Text with EEA relevance).
- **F10** Inserted by Commission Directive 2008/16/EC of 15 February 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include etofenprox as an active substance in Annex I thereto (Text with EEA relevance).
- **F11** Inserted by Commission Directive 2008/86/EC of 5 September 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include tebuconazole as an active substance in Annex I thereto (Text with EEA relevance).
- **F12** Inserted by Commission Directive 2008/75/EC of 24 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include carbon dioxide as an active substance in Annex I thereto (Text with EEA relevance).
- **F13** Inserted by Commission Directive 2010/74/EU of 9 November 2010 amending Directive 98/8/EC of the European Parliament and of the Council to extend the inclusion in Annex I thereto of the active substance carbon dioxide to product type 18 (Text with EEA relevance).
- **F14** Inserted by Commission Directive 2008/78/EC of 25 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include propiconazole as an active substance in Annex I thereto (Text with EEA relevance).
- **F15** Inserted by Commission Directive 2008/81/EC of 29 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include difenacoum as an active substance in Annex I thereto (Text with EEA relevance).
- F16 Inserted by Commission Directive 2008/80/EC of 28 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include cyclohexylhydroxydiazene 1-oxide, potassium salt (K-HDO) as an active substance in Annex I thereto (Text with EEA relevance).
- **F17** Inserted by Commission Directive 2008/79/EC of 28 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include IPBC as an active substance in Annex I thereto (Text with EEA relevance).
- **F18** Inserted by Commission Directive 2009/99/EC of 4 August 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include chlorophacinone as an active substance in Annex I thereto (Text with EEA relevance).
- **F19** Inserted by Commission Directive 2008/85/EC of 5 September 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include thiabendazole as an active substance in Annex I thereto (Text with EEA relevance).
- **F20** Inserted by Commission Directive 2008/77/EC of 25 July 2008 amending Directive 98/8/EC of the European Parliament and of the Council to include thiamethoxam as an active substance in Annex I thereto (Text with EEA relevance).
- **F21** Inserted by Commission Directive 2013/3/EU of 14 February 2013 amending Directive 98/8/EC of the European Parliament and of the Council to extend the inclusion in Annex I thereto of the active substance thiamethoxam to product-type 18 (Text with EEA relevance).
- **F22** Inserted by Commission Directive 2009/93/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include alphachloralose as an active substance in Annex I thereto (Text with EEA relevance).
- **F23** Inserted by Commission Directive 2010/10/EU of 9 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include brodifacoum as an active substance in Annex I thereto (Text with EEA relevance).

- **F24** Inserted by Commission Directive 2009/92/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include bromadiolone as an active substance in Annex I thereto (Text with EEA relevance).
- **F25** Inserted by Commission Directive 2009/88/EC of 30 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include thiacloprid as an active substance in Annex I thereto (Text with EEA relevance).
- **F26** Inserted by Commission Directive 2009/87/EC of 29 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include indoxacarb as an active substance in Annex I thereto (Text with EEA relevance).
- **F27** Inserted by Commission Directive 2009/95/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include aluminium phosphide releasing phosphine as an active substance in Annex I thereto (Text with EEA relevance).
- **F28** Inserted by Commission Directive 2010/9/EU of 9 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to extend the inclusion in Annex I thereto of the active substance aluminium phosphide releasing phosphine to product type 18 as defined in Annex V thereto (Text with EEA relevance).
- **F29** Inserted by Commission Directive 2009/86/EC of 29 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include fenpropimorph as an active substance in Annex I thereto (Text with EEA relevance).
- **F30** Inserted by Commission Directive 2009/94/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include boric acid as an active substance in Annex I thereto (Text with EEA relevance).
- **F31** Inserted by Commission Directive 2009/98/EC of 4 August 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include boric oxide as an active substance in Annex I thereto (Text with EEA relevance).
- **F32** Inserted by Commission Directive 2009/91/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include disodium tetraborate as an active substance in Annex I thereto (Text with EEA relevance).
- **F33** Substituted by Commission Directive 2012/40/EU of 26 November 2012 correcting Annex I to Directive 98/8/EC of the European Parliament and of the Council concerning the placing of biocidal products on the market (Text with EEA relevance).
- **F34** Inserted by Commission Directive 2009/96/EC of 31 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include disodium octaborate tetrahydrate as an active substance in Annex I thereto (Text with EEA relevance).
- **F35** Inserted by Commission Directive 2010/7/EU of 9 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include magnesium phosphide releasing phosphine as an active substance in Annex I thereto (Text with EEA relevance).
- **F36** Inserted by Commission Directive 2009/89/EC of 30 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include nitrogen as an active substance in Annex I thereto (Text with EEA relevance).
- **F37** Inserted by Commission Directive 2009/85/EC of 29 July 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include commatetrally as an active substance in Annex I thereto (Text with EEA relevance).
- **F38** Inserted by Commission Directive 2009/151/EC of 27 November 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include tolylfluanid as an active substance in Annex I thereto (Text with EEA relevance).
- **F39** Inserted by Commission Directive 2010/5/EU of 8 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include acrolein as an active substance in Annex I thereto (Text with EEA relevance).
- **F40** Inserted by Commission Directive 2009/150/EC of 27 November 2009 amending Directive 98/8/EC of the European Parliament and of the Council to include flocoumafen as an active substance in Annex I thereto (Text with EEA relevance).

- **F41** Inserted by Commission Directive 2010/11/EU of 9 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include warfarin as an active substance in Annex I thereto (Text with EEA relevance).
- **F42** Inserted by Commission Directive 2010/8/EU of 9 February 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include warfarin sodium as an active substance in Annex I thereto (Text with EEA relevance).
- **F43** Inserted by Commission Directive 2010/50/EU of 10 August 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include dazomet as an active substance in Annex I thereto (Text with EEA relevance).
- **F44** Inserted by Commission Directive 2010/51/EU of 11 August 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include N,N-diethyl-meta-toluamide as an active substance in Annex I thereto (Text with EEA relevance).
- **F45** Inserted by Commission Directive 2010/71/EU of 4 November 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include metofluthrin as an active substance in Annex I thereto (Text with EEA relevance).
- **F46** Inserted by Commission Directive 2010/72/EU of 4 November 2010 amending Directive 98/8/EC of the European Parliament and of the Council to include spinosad as an active substance in Annex I thereto (Text with EEA relevance).
- **F47** Inserted by Commission Directive 2011/10/EU of 8 February 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include bifenthrin as an active substance in Annex I thereto (Text with EEA relevance).
- **F48** Inserted by Commission Directive 2011/11/EU of 8 February 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include (Z,E)-tetradeca-9,12-dienyl acetate as an active substance in Annexes I and IA thereto (Text with EEA relevance).
- **F49** Inserted by Commission Directive 2011/12/EU of 8 February 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include fenoxycarb as an active substance in Annex I thereto (Text with EEA relevance).
- **F50** Inserted by Commission Directive 2011/13/EU of 8 February 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include nonanoic acid as an active substance in Annex I thereto (Text with EEA relevance).
- **F51** Inserted by Commission Directive 2012/41/EU of 26 November 2012 amending Directive 98/8/EC of the European Parliament and of the Council to extend the inclusion in Annex I thereto of the active substance nonanoic acid to product type 2 (Text with EEA relevance).
- **F52** Inserted by Commission Directive 2011/69/EU of 1 July 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include imidacloprid as an active substance in Annex I thereto (Text with EEA relevance).
- **F53** Inserted by Commission Directive 2011/67/EU of 1 July 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include abamectin as an active substance in Annex I thereto (Text with EEA relevance).
- **F54** Inserted by Commission Directive 2011/66/EU of 1 July 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include 4,5-Dichloro-2-octyl-2H-isothiazol-3-one as an active substance in Annex I thereto (Text with EEA relevance).
- F55 Inserted by Commission Directive 2011/78/EU of 20 September 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include Bacillus thuringiensis subsp. israelensis Serotype H14, Strain AM65-52 as an active substance in Annex I thereto (Text with EEA relevance).
- **F56** Inserted by Commission Directive 2011/79/EU of 20 September 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include fipronil as an active substance in Annex I thereto (Text with EEA relevance).
- **F57** Inserted by Commission Directive 2011/80/EU of 20 September 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include lambda-cyhalothrin as an active substance in Annex I thereto (Text with EEA relevance).

- **F58** Inserted by Commission Directive 2011/81/EU of 20 September 2011 amending Directive 98/8/EC of the European Parliament and of the Council to include deltamethrin as an active substance in Annex I thereto (Text with EEA relevance).
- **F59** Inserted by Commission Directive 2012/2/EU of 9 February 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include copper (II) oxide, copper (II) hydroxide and basic copper carbonate as active substances in Annex I thereto (Text with EEA relevance).
- **F60** Inserted by Commission Directive 2012/3/EU of 9 February 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include bendiocarb as an active substance in Annex I thereto (Text with EEA relevance).
- **F61** Inserted by Commission Directive 2012/14/EU of 8 May 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include methyl nonyl ketone as an active substance in Annex I thereto (Text with EEA relevance).
- **F62** Inserted by Commission Directive 2012/15/EU of 8 May 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include margosa extract as an active substance in Annex I thereto (Text with EEA relevance).
- **F63** Inserted by Commission Directive 2012/16/EU of 10 May 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include hydrochloric acid as an active substance in Annex I thereto (Text with EEA relevance).
- **F64** Inserted by Commission Directive 2012/20/EU of 6 July 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include flufenoxuron as an active substance for product-type 8 in Annex I thereto (Text with EEA relevance).
- **F65** Inserted by Commission Directive 2012/22/EU of 22 August 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include DDACarbonate as an active substance in Annex I thereto (Text with EEA relevance).
- **F66** Inserted by Commission Directive 2012/38/EU of 23 November 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include cis-Tricos-9-ene as an active substance in Annex I thereto (Text with EEA relevance).
- **F67** Inserted by Commission Directive 2012/42/EU of 26 November 2012 amending Directive 98/8/EC of the European Parliament and of the Council to include hydrogen cyanide as an active substance in Annex I thereto (Text with EEA relevance).
- **F68** Inserted by Commission Directive 2013/4/EU of 14 February 2013 amending Directive 98/8/EC of the European Parliament and of the Council to include Didecyldimethylammonium Chloride as an active substance in Annex I thereto (Text with EEA relevance).
- **F69** Inserted by Commission Directive 2013/5/EU of 14 February 2013 amending Directive 98/8/EC of the European Parliament and of the Council to include pyriproxyfen as an active substance in Annex I thereto (Text with EEA relevance).
- **F70** Inserted by Commission Directive 2013/6/EU of 20 February 2013 amending Directive 98/8/EC of the European Parliament and of the Council to include diflubenzuron as an active substance in Annex I thereto (Text with EEA relevance).
- **F71** Inserted by Commission Directive 2013/7/EU of 21 February 2013 amending Directive 98/8/EC of the European Parliament and of the Council to include Alkyl (C12-16) dimethylbenzyl ammonium chloride as an active substance in Annex I thereto (Text with EEA relevance).

ANNEX IA LIST OF ACTIVE SUBSTANCES WITH REQUIREMENTS AGREED AT COMMUNITY LEVEL FOR INCLUSION IN LOW-RISK BIOCIDAL PRODUCTS

[F72No	Common	n IUPAC nameIde numbers	Minimulation pidication the active substance in the biocidal product as placed on the market	n of inclusion	for compliant with Article 16(3)(exc for products containi more than one active substanc for which the deadline to comply with Article 16(3) shall be the one set out in the last of the inclusion decisions	ng ce,	Product type	Specific provisions
						5		
1	Carbon dioxide	Carbon dioxide EC No: 204-696-9 CAS No: 124-38-9		November 2009	31 rOctober 2011	October 2019	14	Only for use in ready-for-use gas canisters functioning together with a

Note: For the implementation of the common principles of Annex VI, the content and conclusions of assessment reports are available on the Commission website: http://ec.europa.eu/comm/environment/biocides/index.htm]

							trapping device.
[F482	(Z,E)-tetradeca-dienyl acetate	(9Z,12E)- 9elizadeca- dien-1- yl acetate EC No: n.a. CAS No: 30507-70	1 February 2013	31 January 2015	31 January 2023	19	Member States shall ensure that registrations are subject to the following conditions: — Only for traps containing a maximum of 2 mg of (Z,E)- Tetradeca-9,12- dienyl acetate for indoor use, — Labels for biocidal products containing (Z,E)- tetradeca-9,12- dienyl acetate shall indicate that those products shall only be used indoors,
							and

Note: For the implementation of the common principles of Annex VI, the content and conclusions of assessment reports are available on the Commission website: http://ec.europa.eu/comm/environment/biocides/index.htm]

				shall not be used in spaces where un-
				packaged food
				or feed
				is
				kept.]

Note: For the implementation of the common principles of Annex VI, the content and conclusions of assessment reports are available on the Commission website: http://ec.europa.eu/comm/environment/biocides/index.htm]

Textual Amendments

F72 Inserted by Commission Directive 2007/70/EC of 29 November 2007 amending Directive 98/8/EC of the European Parliament and of the Council to include carbon dioxide as an active substance in Annex IA thereto (Text with EEA relevance).

ANNEX IB

LIST OF BASIC SUBSTANCES WITH REQUIREMENTS AGREED AT COMMUNITY LEVEL

ANNEX IIA

COMMON CORE DATA SET FOR ACTIVE SUBSTANCES CHEMICAL SUBSTANCES

- 1. Dossiers on active substances are required to address at least all the points listed under 'Dossier requirements'. Responses are required to be supported by data. The dossier requirements must be in line with technical development.
- 2. Information which is not necessary owing to the nature of the biocidal product or of its proposed uses need not be supplied. The same applies where it is not scientifically necessary or technically possible to supply the information. In such cases a justification, acceptable to the competent authority must be submitted. Such a justification may be the existence of a frame-formulation to which the applicant has the right of access.

Dossier requirements

- I. Applicant
- II. Identity of the active substance

- III. Physical and chemical properties of the active substance
- IV. Methods of detection and identification
- V. Effectiveness against target organisms and intended uses
- VI. Toxicological profile for man and animals including metabolism
- VII. Ecotoxicological profile including environmental fate and behaviour
- VIII. Measures necessary to protect man, animals and the environment
- IX. Classification and labelling
- X. Summary and evaluation of Sections II to IX

The following data will be required to support submission on the above points.

- I. APPLICANT
- 1.1. Name and address, etc.
- 1.2. Active substance manufacturer (name, address, location of plant)
- II. IDENTITY
- 2.1. Common name proposed or accepted by ISO and synonyms
- 2.2. Chemical name (IUPAC nomenclature)
- 2.3. Manufacturer's development code number(s)
- 2.4. CAS and EC numbers (if available)
- 2.5. Molecular and structural formula (including full details of any isomeric composition), molecular mass
- 2.6. Method of manufacture (syntheses pathway in brief terms) of active substance
- 2.7. Specification of purity of the active substance in g/kg or g/l, as appropriate
- 2.8. Identity of impurities and additives (e.g. stabilisers), together with the structural formula and the possible range expressed as g/kg or g/l, as appropriate
- 2.9. The origin of the natural active substance or the precursor(s) of the active substance, e.g. an extract of a flower
- 2.10. Exposure data in conformity with Annex VIIA to Directive 92/32/EEC⁽¹⁾.
- III. PHYSICAL AND CHEMICAL PROPERTIES
- 3.1. Melting point, boiling point, relative density (1)
- 3.2. Vapour pressure (in Pa) (1)
- 3.3. Appearance (physical state, colour) (2)
- 3.4. Absorption spectra (UV/VIS, IR, NMR), and a mass spectrum, molar extinction at relevant wavelengths, where relevant (1)

- 3.5. Solubility in water including effect of pH (5 to 9) and temperature on solubility, where relevant (1)
- 3.6. Partition coefficient n-octanol/water including effect of pH (5 to 9) and temperature (1)
- 3.7. Thermal stability, identity of relevant breakdown products
- 3.8. Flammability including auto-flammability and identity of combustion products
- 3.9. Flash-point
- 3.10. Surface tension
- 3.11. Explosive properties
- 3.12. Oxidising properties
- 3.13. Reactivity towards container material
- IV. ANALYTICAL METHODS FOR DETECTION AND IDENTIFICATION
- 4.1. Analytical methods for the determination of pure active substance and, where appropriate, for relevant degradation products, isomers and impurities of the active substance and additives (e.g. stabilisers)
- 4.2. Analytical methods including recovery rates and the limits of determination for the active substance, and for residues thereof, and where relevant in/on the following:
- (a) Soil
- (b) Air
- (c) Water: the applicant should confirm that the substance itself and any of its degradation products which fall within the definition of pesticides given for parameter 55 in Annex I to Council Directive 80/778/EEC of 15 July 1980 relating to the quality of water intended for human consumption⁽²⁾ can be estimated with adequate reliability at the MAC specified in that Directive for individual pesticides
- (d) Animal and human body fluids and tissues
- V. EFFECTIVENESS AGAINST TARGET ORGANISMS AND INTENDED USES
- 5.1. Function, e.g. fungicide, rodenticide, insecticide, bactericide
- 5.2. Organism(s) to be controlled and products, organisms or objects to be protected
- 5.3. Effects on target organisms, and likely concentration at which the active substance will be used
- 5.4. Mode of action (including time delay)
- 5.5. Field of use envisaged
- 5.6. User: industrial, professional, general public (non-professional)
- 5.7. Information on the occurrence or possible occurrence of the development of resistance and appropriate management strategies
- 5.8. Likely tonnage to be placed on the market per year

VI. TOXICOLOGICAL AND METABOLIC STUDIES

6.1. Acute toxicity

For studies 6.1.1 to 6.1.3, substances other than gases shall be administered via at least two routes, one of which should be the oral route. The choice of the second route will depend on the nature of the substance and the likely route of human exposure. Gases and volatile liquids should be administered by the inhalation route.

- 6.1.1. Oral
- 6.1.2. Dermal
- 6.1.3. Inhalation
- 6.1.4. Skin and eye irritation (3)
- 6.1.5. Skin sensitisation
- 6.2. Metabolism studies in mammals. Basic toxicokinetics, including a dermal absorption study

For the following studies, 6.3 (where necessary), 6.4, 6.5, 6.7 and 6.8, the required route of administration is the oral route unless it can be justified that an alternative route is more appropriate

6.3. Short-term repeated dose toxicity (28 days)

This study is not required when a sub-chronic toxicity study is available in a rodent

- 6.4. Subchronic toxicity 90-day study, two species, one rodent and one non-rodent
- 6.5. Chronic toxicity (4)

One rodent and one other mammalian species

- 6.6. Mutagenicity studies
- 6.6.1. *In-vitro* gene mutation study in bacteria
- 6.6.2. *In-vitro* cytogenicity study in mammalian cells
- 6.6.3. *In-vitro* gene mutation assay in mammalian cells
- 6.6.4. If positive in 6.6.1, 6.6.2 or 6.6.3, then an *in-vivo* mutagenicity study will be required (bone marrow assay for chromosomal damage or a micronucleus test)
- 6.6.5. If negative in 6.6.4 but positive *in-vitro* tests then undertake a second *in-vivo* study to examine whether mutagenicity or evidence of DNA damage can be demonstrated in tissue other than bone marrow
- 6.6.6. If positive in 6.6.4 then a test to assess possible germ cell effects may be required
- 6.7. Carcinogenicity study (4)

One rodent and one other mammalian species. These studies may be combined with those in 6.5

- 6.8. Reproductive toxicity (5)
- 6.8.1. Teratogenicity test rabbit and one rodent species

- 6.8.2. Fertility study at least two generations, one species, male and female
- 6.9. Medical data in anonymous form
- 6.9.1. Medical surveillance data on manufacturing plant personnel if available
- 6.9.2. Direct observation, e.g. clinical cases, poisoning incidents if available
- 6.9.3. Health records, both from industry and any other available sources
- 6.9.4. Epidemiological studies on the general population, if available
- 6.9.5. Diagnosis of poisoning including specific signs of poisoning and clinical tests, if available
- 6.9.6. Sensitisation/allergenicity observations, if available
- 6.9.7. Specific treatment in case of an accident or poisoning: first aid measures, antidotes and medical treatment, if known
- 6.9.8. Prognosis following poisoning
- 6.10. Summary of mammalian toxicology and conclusions, including no observed adverse effect level (NOAEL), no observed effect level (NOEL), overall evaluation with regard to all toxicological data and any other information concerning the active substances. Where possible any suggested worker protection measures should be included in summary form
- VII. ECOTOXICOLOGICAL STUDIES
- 7.1. Acute toxicity to fish
- 7.2. Acute toxicity to *Daphnia magna*
- 7.3. Growth inhibition test on algae
- 7.4. Inhibition to microbiological activity
- 7.5. Bioconcentration

Fate and behaviour in the environment

- 7.6. Degradation
- 7.6.1. Biotic
- 7.6.1.1. Ready biodegradability
- 7.6.1.2. Inherent biodegradability, where appropriate
- 7.6.2. Abiotic
- 7.6.2.1. Hydrolysis as a function of pH and identification of breakdown products
- 7.6.2.2. Phototransformation in water including identity of the products of transformation (1)
- 7.7. Adsorption/desorption screening test

Where the results of this test indicate the need to do so, the test described in Annex IIIA Part XII.1 paragraph 1.2 shall be required, and/or the test described in Annex IIIA Part XII.2 paragraph 2.2

- 7.8. Summary of ecotoxicological effects and fate and behaviour in the environment
- VIII. MEASURES NECESSARY TO PROTECT MAN, ANIMALS AND THE **ENVIRONMENT**
- 8.1. Recommended methods and precautions concerning handling, use, storage, transport or fire
- 8.2. In case of fire, nature of reaction products, combustion gases, etc.
- 8.3. Emergency measures in case of an accident
- 8.4. Possibility of destruction or decontamination following release in or on the following: (a) air (b) water, including drinking water (c) soil
- 8.5. Procedures for waste management of the active substance for industry or professional
- 8.5.1. Possibility of reuse or recycling
- 8.5.2. Possibility of neutralisation of effects
- 8.5.3. Conditions for controlled discharge including leachate qualities on disposal
- 8.5.4. Conditions for controlled incineration
- 8.6. Observations on undesirable or unintended side-effects, e.g. on beneficial and other non-target organisms
- IX. CLASSIFICATION AND LABELLING

Proposals including justification for the proposals for the classification and labelling of the active substance according to Directive 67/548/EEC

Hazard symbol(s)

Indications of danger

Risk phrases

Safety phrases

X.SUMMARY AND EVALUATION OF SECTIONS II TO IX

Notes

- These data must be submitted for the purified active substance of stated specification. $(^1)$
- These data must be submitted for the active substance of stated specification.
- Eye irritation test shall not be necessary where the active substance has been shown $\binom{3}{3}$ to have potential corrosive properties.
- The long-term toxicity and carcinogenicity of an active substance may not be required where a full justification demonstrates that these tests are not necessary.
- If, in exceptional circumstances, it is claimed that such testing is unnecessary, that $(^{5})$ claim must be fully justified.

ANNEX IIB

COMMON CORE DATA SET FOR BIOCIDAL PRODUCTS CHEMICAL PRODUCTS

- 1. Dossiers on biocidal products are required to address at least all the points listed under 'Dossier requirements'. Responses are required to be supported by data. The dossier requirements must be in line with technical development.
- 2. Information which is not necessary owing to the nature of the biocidal product or of its proposed uses need not be supplied. The same applies where it is not scientifically necessary or technically possible to supply the information. In such cases a justification, acceptable to the competent authority must be submitted. Such a justification may be the existence of a frame-formulation to which the applicant has the right of access.
- 3. Information may be derived from existing data where a justification acceptable to the competent authority is provided. In particular, the provisions of Directive 88/379/EEC should be used wherever possible to minimise animal testing.

Dossier requirements

- I. Applicant
- II. Identity of the biocidal product
- III. Physical and chemical properties of the biocidal product
- IV. Methods for identification and analysis of the biocidal product
- V. Intended uses of the biocidal product and efficacy for these uses
- VI. Toxicology data for the biocidal product (additional to that for the active substance)
- VII. Ecotoxicology data for the biocidal product (additional to that for the active substance)
- VIII. Measures necessary to protect man, animals and the environment
- IX. Classification, packaging and labelling
- X. Summary and evaluation of Sections II to IX

The following data will be required to support submission on the above points.

- I. APPLICANT
- 1.1. Name and address, etc.
- 1.2. Formulator of the biocidal product and the active substance(s) (names, addresses, including location of plant(s))
- II. IDENTITY
- 2.1. Trade name or proposed trade name, and manufacturer's development code number of the preparation, if appropriate
- 2.2. Detailed quantitative and qualitative information on the composition of the biocidal product, e.g. active substance(s), impurities, adjutants, inert components
- 2.3. Physical state and nature of the biocidal product, e.g. emulsifiable concentrate, wettable powder, solution

- III. PHYSICAL, CHEMICAL AND TECHNICAL PROPERTIES
- 3.1. Appearance (physical state, colour)
- 3.2. Explosive properties
- 3.3. Oxidising properties
- 3.4. Flash-point and other indications of flammability or spontaneous ignition
- 3.5. Acidity/alkalinity and if necessary pH value (1 % in water)
- 3.6. Relative density
- 3.7. Storage stability stability and shelf-life. Effects of light, temperature and humidity on technical characteristics of the biocidal product; reactivity towards container material
- 3.8. Technical characteristics of the biocidal product, e.g. wettability, persistent foaming, flowability, pourability and dustability
- 3.9. Physical and chemical compatibility with other products including other biocidal products with which its use is to be authorised
- IV. METHODS OF IDENTIFICATION AND ANALYSIS
- 4.1. Analytical method for determining the concentration of the active substance(s) in the biocidal product
- 4.2. In so far as not covered by Annex IIA, paragraph 4.2, analytical methods including recovery rates and the limits of determination for toxicologically and ecotoxicologically relevant components of the biocidal product and/or residues thereof, where relevant in or on the following:
- (a) Soil
- (b) Air
- (c) Water (including drinking water)
- (d) Animal and human body fluids and tissues
- (e) Treated food or feedingstuffs
- V. INTENDED USES AND EFFICACY
- 5.1. Product type and field of use envisaged
- 5.2. Method of application including description of system used
- 5.3. Application rate and if appropriate, the final concentration of the biocidal product and active substance in the system in which the preparation is to be used, e.g. cooling water, surface water, water used for heating purposes
- 5.4. Number and timing of applications, and where relevant, any particular information relating to geographical variations, climatic variations, or necessary waiting periods to protect man and animals
- 5.5. Function, e.g. fungicide, rodenticide, insecticide, bactericide

- 5.6. Pest organism(s) to be controlled and products, organisms or objects to be protected
- 5.7. Effects on target organisms
- 5.8. Mode of action (including time delay) in so far as not covered by Annex IIA, paragraph 5.4
- 5.9. User: industrial, professional, general public (non-professional)

Efficacy data

- 5.10. The proposed label claims for the product and efficacy data to support these claims, including any available standard protocols used, laboratory tests, or field trials, where appropriate
- 5.11. Any other known limitations on efficacy including resistance
- VI. TOXICOLOGICAL STUDIES
- 6.1. Acute toxicity

For studies 6.1.1 to 6.1.3, biocidal products other than gases shall be administered via at least two routes, one of which should be the oral route. The choice of the second route will depend on the nature of the product and the likely route of human exposure. Gases and volatile liquids should be administered by the inhalation route

- 6.1.1. Oral
- 6.1.2. Dermal
- 6.1.3. Inhalation
- 6.1.4. For biocidal products that are intended to be authorised for use with other biocidal products, the mixture of products, where possible, shall be tested for acute dermal toxicity and skin and eye irritation, as appropriate
- 6.2. Skin and eye irritation (1)
- 6.3. Skin sensitisation
- 6.4. Information on dermal absorption
- 6.5. Available toxicological data relating to toxicologically relevant non-active substances (i.e. substances of concern)
- 6.6. Information related to the exposure of the biocidal product to man and the operator

Where necessary, the test(s) described in Annex IIA, shall be required for the toxicologically relevant non-active substances of the preparation

- VII. ECOTOXICOLOGICAL STUDIES
- 7.1. Foreseeable routes of entry into the environment on the basis of the use envisaged
- 7.2. Information on the ecotoxicology of the active substance in the product, where this cannot be extrapolated from the information on the active substance itself
- 7.3. Available ecotoxicological information relating to exotoxicological relevant non-active substances (i.e. substances of concern), such as information from safety data sheets

VIII. MEASURES TO BE ADOPTED TO PROTECT MAN, ANIMALS AND THE ENVIRONMENT

- 8.1. Recommended methods and precautions concerning handling, use, storage, transport or fire
- 8.2. Specific treatment in case of an accident, e.g. first-aid measures, antidotes, medical treatment if available; emergency measures to protect the environment; in so far as not covered by Annex IIA, paragraph 8.3
- 8.3. Procedures, if any, for cleaning application equipment
- 8.4. Identity of relevant combustion products in cases of fire
- 8.5. Procedures for waste management of the biocidal product and its packaging for industry, professional users and the general public (non-professional users), e.g. possibility of reuse or recycling, neutralisation, conditions for controlled discharge, and incineration
- 8.6. Possibility of destruction or decontamination following release in or on the following:
- (a) Air
- (b) Water, including drinking water
- (c) Soil
- 8.7. Observations on undesirable or unintended side-effects, e.g. on beneficial and other non-target organisms
- 8.8. Specify any repellents or poison control measures included in the preparation that are present to prevent action against non-target organisms
- IX. CLASSIFICATION, PACKAGING AND LABELLING
- Proposals for packaging and labelling
- Proposals for safety-data sheets, where appropriate
- Justification for the classification and labelling according to the principles of Article
 20 of this Directive
 - Hazard symbol(s)
 - Indications of danger
 - Risk phrases
 - Safety phrases
 - Packaging (type, materials, size, etc.), compatibility of the preparation with proposed packaging materials to be included

X.SUMMARY AND EVALUATION OF SECTIONS II TO IX

Notes

(1) Eye-irritation test shall not be necessary where the biocidal product has been shown to have potential corrosive properties.

ANNEX IIIA

ADDITIONAL DATA SET FOR ACTIVE SUBSTANCES CHEMICAL SUBSTANCES

- 1. Dossiers on active substances are required to address at least all the points listed under 'Dossier requirements'. Responses are required to be supported by data. The dossier requirements must be in line with technical development.
- 2. Information which is not necessary owing to the nature of the biocidal product or of its proposed uses need not be supplied. The same applies where it is not scientifically necessary or technically possible to supply the information. In such cases a justification, acceptable to the competent authority must be submitted. Such a justification may be the existence of a frame-formulation to which the applicant has the right of access.

III. PHYSICAL AND CHEMICAL PROPERTIES

- 1. Solubility in organic solvents, including effect of temperature on solubility (1)
- 2. Stability in organic solvents used in biocidal products and identity of relevant breakdown products (2)

IV. ANALYTICAL METHODS FOR DETECTION AND IDENTIFICATION

1. Analytical methods including recovery rates and the limits of determination for the active substance, and for residues thereof, in/on food or feedstuffs and other products where relevant

VI. TOXICOLOGICAL AND METABOLIC STUDIES

1. Neurotoxicity study

If the active substance is an organophosphorus compound or if there are any other indications that the active substance may have neurotoxic properties then neurotoxicity studies will be required. The test species is the adult hen unless another test species is justified to be more appropriate. If appropriate, delayed neurotoxicity tests will be required. If anticholine esterase activity is detected a test for response to reactivating agents should be considered

- 2. Toxic effects on livestock and pets
- 3. Studies related to the exposure of the active substance to humans
- 4. Food and feedingstuffs

If the active substance is to be used in preparations for use where food for human consumption is prepared, consumed or stored, or where feedingstuff for livestock is prepared, consumed or stored the tests referred to in Section XI, part 1 shall be required

- 5. If any other tests related to the exposure of the active substance to humans, in its proposed biocidal products, are considered necessary, then the test(s) referred to in Section XI, part 2 shall be required
- 6. If the active substance is to be used in products for action against plants then tests to assess toxic effects of metabolites from treated plants, if any, where different from those identified in animals shall be required

7. Mechanistic study — any studies necessary to clarify effects reported in toxicity studies

VII. ECOTOXICOLOGICAL STUDIES

- 1. Acute toxicity test on one other, non-aquatic, non-target organism
- 2. If the results of the ecotoxicological studies and the intended use(s) of the active substance indicate a danger for the environment then the tests described in Sections XII and XIII shall be required
- 3. If the result of the test in paragraph 7.6.1.2 of Annex IIA is negative and if the likely route of disposal of the active substance is by sewage treatment then the test described in Section XIII, part 4.1 shall be required
- 4. Any other biodegradability tests that are relevant from the results in paragraphs 7.6.1.1 and 7.6.1.2 of Annex IIA
- 5. Phototransformation in air (estimation method), including identification of breakdown products (1)
- 6. If the results from paragraphs 7.6.1.2 in Annex IIA or from paragraph 4, above, indicate the need to do so, or the active substance has an overall low or absent abiotic degradation, then the tests described in Section XII, part 1.1, part 2.1 and, where appropriate, part 3 shall be required
- VIII. MEASURES NECESSARY TO PROTECT HUMANS, ANIMALS AND THE ENVIRONMENT
- 1. Identification of any substances falling within the scope of List I or List II of the Annex to Directive 80/68/EEC on the protection of groundwater against pollution caused by certain dangerous substances⁽³⁾

Notes

- (1) These data must be submitted for the purified active substance of stated specification.
- (2) These data must be submitted for the active substance of stated specification.

XI. FURTHER HUMAN HEALTH-RELATED STUDIES

- 1. Food and feedingstuffs studies
- 1.1. Identification of degradation and reaction products and of metabolites of the active substance in treated or contaminated foods or feedstuffs
- 1.2. Behaviour of the residue of the active substance, its degradation products and, where relevant, its metabolites on the treated or contaminated food or feedstuffs including the kinetics of disappearance
- 1.3. Overall material balance for the active substance. Sufficient residue data from supervised trials to demonstrate that residues likely to arise from the proposed use would not be of concern for human or animal health
- 1.4. Estimation of potential or actual exposure of the active substance to humans through diet and other means

- 1.5. If residues of the active substance remain on feedingstuffs for a significant period of time then feeding and metabolism studies in livestock shall be required to permit evaluation of residues in food of animal origin
- 1.6. Effects of industrial processing and/or domestic preparation on the nature and magnitude of residues of the active substance
- 1.7. Proposed acceptable residues and the justification of their acceptability
- 1.8. Any other available information that is relevant
- 1.9. Summary and evaluation of data submitted under 1.1 to 1.8
- 2. Other test(s) related to the exposure to humans

Suitable test(s) and a reasoned case will be required

XII. FURTHER STUDIES ON FATE AND BEHAVIOUR IN THE ENVIRONMENT

- 1. Fate and behaviour in soil
- 1.1. Rate and route of degradation including identification of the processes involved and identification of any metabolites and degradation products in at least three soil types under appropriate conditions
- 1.2. Absorption and desorption in at least three soil types and, where relevant, absorption and desorption of metabolites and degradation products
- 1.3. Mobility in at least three soil types and where relevant mobility of metabolites and degradation products
- 1.4. Extent and nature of bound residues
- 2. Fate and behaviour in water
- 2.1. Rate and route of degradation in aquatic systems (as far as is not covered by Annex IIA, paragraph 7.6) including identification of metabolites and degradation products
- 2.2. Absorption and desorption in water (soil sediment systems) and, where relevant, absorption and desorption of metabolites and degradation products
- 3. Fate and behaviour in air

If the active substance is to be used in preparations for fumigants, if it is to be applied by a spray method, if it is volatile, or if any other information indicates that this is relevant, then the rate and route of degradation in air shall be determined as far as is not covered by Section VII, part 5

4. Summary and evaluation of parts 1, 2 and 3

XIII. FURTHER ECOTOXICOLOGICAL STUDIES

- 1. Effects on birds
- 1.1. Acute oral toxicity this need not be done if an avian species was selected for study in Section VII, part 1
- 1.2. Short-term toxicity eight-day dietary study in at least one species (other than chickens)
- 1.3. Effects on reproduction

- 2. Effects on aquatic organisms
- 2.1. Prolonged toxicity to an appropriate species of fish
- 2.2. Effects on reproduction and growth rate on an appropriate species of fish
- 2.3. Bioaccumulation in an appropriate species of fish
- 2.4. *Daphnia magna* reproduction and growth rate
- 3. Effects on other non-target organisms
- 3.1. Acute toxicity to honeybees and other beneficial arthropods, e.g. predators. A different test organism shall be chosen from that used in Section VII, part 1
- 3.2. Toxicity to earthworms and to other soil non-target macro-organisms
- 3.3. Effects on soil non-target micro-organisms
- 3.4. Effects on any other specific, non-target organisms (flora and fauna) believed to be at risk
- 4. Other effects
- 4.1. Activated sludge respiration inhibition test
- 5. Summary and evaluation of parts 1, 2, 3 and 4

ANNEX IIIB

ADDITIONAL DATA SET FOR BIOCIDAL PRODUCTS CHEMICAL PRODUCTS

- 1. Dossiers on biocidal products are required to address at least all the points listed under 'Dossier requirements'. Responses are required to be supported by data. The dossier requirements must be in line with technical development.
- 2. Information which is not necessary owing to the nature of the biocidal product or of its proposed uses need not be supplied. The same applies where it is not scientifically necessary or technically possible to supply the information. In such cases a justification, acceptable to the competent authority must be submitted. Such a justification may be the existence of a frame-formulation to which the applicant has the right of access.
- 3. Information may be derived from existing data where a justification acceptable to the competent authority is provided. In particular, the provisions of Directive 88/379/EEC should be used wherever possible to minimise animal testing.
- XI. FURTHER HUMAN HEALTH-RELATED STUDIES
- 1. Food and feedingstuffs studies
- 1.1. If residues of the biocidal product remain on feedingstuffs for a significant period of time, then feeding and metabolism studies in livestock shall be required to permit evaluation of residues in food of animal origin

- 1.2. Effects of industrial processing and/or domestic preparation on the nature and magnitude of residues of the biocidal product
- 2. Other test(s) related to the exposure to humans

Suitable test(s) and a reasoned case will be required for the biocidal product

XII. FURTHER STUDIES ON FATE AND BEHAVIOUR IN THE ENVIRONMENT

- 1. Where relevant all the information required in Annex IIIA, Section XII
- 2. Testing for distribution and dissipation in the following:
- (a) Soil
- (b) Water
- (c) Air

Test requirements 1 and 2 above are applicable only to ecotoxicologically relevant components of the biocidal product

XIII. FURTHER ECOTOXICOLOGICAL STUDIES

- 1. Effects on birds
- 1.1. Acute oral toxicity, if not already done in accordance with Annex IIB, Section VII
- 2. Effects on aquatic organisms
- 2.1. In case of application on, in, or near to surface waters
- 2.1.1. Particular studies with fish and other aquatic organisms
- 2.1.2. Residue data in fish concerning the active substance and including toxicologically relevant metabolites
- 2.1.3. The studies referred to in Annex IIIA, Section XIII, parts 2.1, 2.2, 2.3 and 2.4 may be required for relevant components of the biocidal product
- 2.2. If the biocidal product is to be sprayed near to surface waters then an overspray study may be required to assess risks to aquatic organisms under field conditions
- 3. Effects on other non-target organisms
- 3.1. Toxicity to terrestrial vertebrates other than birds
- 3.2. Acute toxicity to honeybees
- 3.3. Effects on beneficial arthropods other than bees
- 3.4. Effects on earthworms and other soil non-target macro-organisms, believed to be at risk
- 3.5. Effects on soil non-target micro-organisms
- 3.6. Effects on any other specific, non-target organisms (flora and fauna) believed to be at risk
- 3.7. If the biocidal product is in the form of bait or granules

- 3.7.1. Supervised trials to assess risks to non-target organisms under field conditions
- 3.7.2. Studies on acceptance by ingestion of the biocidal product by any non-target organisms thought to be at risk
- 4. Summary and evaluation of parts 1, 2, and 3

[F73ANNEX IVA

DATA SET FOR ACTIVE SUBSTANCES MICRO-ORGANISMS INCLUDING VIRUSES AND FUNGI

Textual Amendments

- **F73** Substituted by Commission Directive 2006/50/EC of 29 May 2006 amending Annexes IVA and IVB to Directive 98/8/EC of the European Parliament and of the Council concerning the placing of biocidal products on the market (Text with EEA relevance).
- 1. For the purposes of this Annex, the term micro-organisms shall be understood as including also viruses and fungi. Dossiers on active micro-organisms shall address at least all the points listed under 'Dossier requirements' below. For all micro-organisms subject to an application for inclusion into Annex I or IA, all available relevant knowledge and information in literature must be provided. The information related to the identification and characterisation of a micro-organism including mode of action is particularly important and must be entered in sections I to IV and provides the basis for an assessment of potential impacts on human health and of environmental effects.
- 2. Where information is not necessary owing to the nature of the micro-organism Article 8(5) shall apply.
- 3. A dossier within the meaning of Article 11(1) shall be prepared on strain level of the micro-organism unless information is submitted that shows that the species is known to be sufficiently homogeneous regarding all characteristics, or the applicant provides other arguments in accordance with Article 8(5).
- 4. Where the micro-organism has been genetically modified within the meaning of Article 2(2) of Directive 2001/18/EC, a copy of the evaluation of the data concerning the assessment of the risks to the environment as established in Article 4(2) of that Directive, shall also be submitted.
- 5. If the biocidal product action is known to be partly or entirely due to the effect of a toxin/metabolite, or if significant residues of toxins/metabolites are to be expected not related to the effect of the active micro-organism, a dossier for the toxin/metabolite shall be submitted in accordance with the requirements of Annexes IIA and, where specified, the relevant parts of Annex IIIA.

Dossier requirements

SECTIONS:

- I. Identity of the micro-organism
- II. Biological properties of the micro-organism

- III. Further information on the micro-organism
- IV. Analytical methods
- V. Effects on human health
- VI. Residues in or on treated materials, food and feed
- VII. Fate and behaviour in the environment
- VIII. Effects on non-target organisms
- IX. Classification and labelling
- X. Summary and evaluation of sections I to IX including conclusions of the risk assessment and recommendations

The following data will be required to support submissions on the above points.

- I. IDENTITY OF THE MICRO-ORGANISM
- 1.1. Applicant
- 1.2. Manufacturer
- 1.3. Name and species description, strain characterisation
- 1.3.1. Common name of the micro-organism (including alternative and superseded names)
- 1.3.2. Taxonomic name and strain indicating whether it is a stock variant, a mutant strain or a genetically modified organism (GMO); for viruses, taxonomic designation of the agent, serotype, strain or mutant
- 1.3.3. Collection and culture reference number where the culture is deposited
- 1.3.4. Methods, procedures and criteria used to establish the presence and identity of the micro-organism (e.g. morphology, biochemistry, serology, etc.)
- 1.4. Specification of the material used for manufacturing of formulated products
- 1.4.1. Content of the micro-organism
- 1.4.2. Identity and content of impurities, additives, contaminating micro-organisms
- 1.4.3. Analytical profile of batches
- II. BIOLOGICAL PROPERTIES OF THE MICRO-ORGANISM
- 2.1. History of the micro-organism and its uses. Natural occurrence and geographical distribution
- 2.1.1. Historical background
- 2.1.2. Origin and natural occurrence
- 2.2. Information on target organism(s)
- 2.2.1. Description of the target organism(s)
- 2.2.2. Mode of action
- 2.3. Host specificity range and effects on species other than the target organism

- 2.4. Development stages/life cycle of the micro-organism
- 2.5. Infectiveness, dispersal and colonisation ability
- 2.6. Relationships to known plant or animal or human pathogens
- 2.7. Genetic stability and factors affecting it
- 2.8. Information on the production of metabolites (especially toxins)
- 2.9. Antibiotics and other anti-microbial agents
- 2.10. Robustness to environmental factors
- 2.11. Effects on materials, substances and products
- III. FURTHER INFORMATION ON THE MICRO-ORGANISM
- 3.1. Function
- 3.2. Field of use envisaged
- 3.3. Product type(s) and category of users for which the micro-organism should be listed in Annex I, IA or IB
- 3.4. Method of production and quality control
- 3.5. Information on the occurrence or possible occurrence of the development of resistance of the target organism(s)
- 3.6. Methods to prevent loss of virulence of seed stock of the micro-organism
- 3.7. Recommended methods and precautions concerning handling, storage, transport or fire
- 3.8. Procedures for destruction or decontamination
- 3.9. Measures in case of an accident
- 3.10. Procedures for waste management
- 3.11. Monitoring plan to be used for the active micro-organism including handling, storage, transport and use
- IV. ANALYTICAL METHODS
- 4.1. Methods for the analysis of the micro-organism as manufactured
- 4.2. Methods to determine and quantify residues (viable or non-viable)
- V. EFFECTS ON HUMAN HEALTH

TIER I

- 5.1. Basic information
- 5.1.1. Medical data
- 5.1.2. Medical surveillance on manufacturing plant personnel
- 5.1.3. Sensitisation/allergenicity observations

- 5.1.4. Direct observation, e.g. clinical cases
- 5.2. Basic studies
- 5 2 1 Sensitisation
- 5.2.2. Acute toxicity, pathogenicity, and infectiveness
- 5.2.2.1. Acute oral toxicity, pathogenicity and infectiveness
- 5.2.2.2. Acute inhalation toxicity, pathogenicity and infectiveness
- 5.2.2.3. Intraperitoneal/subcutaneous single dose
- 5.2.3. *In vitro* genotoxicity testing
- 5.2.4. Cell culture study
- 5.2.5. Information on short-term toxicity and pathogenicity
- 5.2.5.1. Health effects after repeated inhalatory exposure
- 5.2.6. Proposed treatment: first aid measures, medical treatment
- 5.2.7. Any pathogenicity and infectiveness to humans and other mammals under conditions of immunosuppression

END OF TIER I

TIER II

- 5.3. Specific toxicity, pathogenicity and infectiveness studies
- 5.4. Genotoxicity *In vivo* studies in somatic cells
- 5.5. Genotoxicity *In vivo* studies in germ cells

END OF TIER II

- 5.6. Summary of mammalian toxicity, pathogenicity and infectiveness and overall evaluation
- VI. RESIDUES IN OR ON TREATED MATERIALS, FOOD AND FEED
- 6.1. Persistence and likelihood of multiplication in or on treated materials, feedingstuffs or foodstuffs
- 6.2. Further information required
- 6.2.1. Non-viable residues
- 6.2.2. Viable residues
- 6.3. Summary and evaluation of residues in or on treated materials, food and feed
- VII. FATE AND BEHAVIOUR IN THE ENVIRONMENT
- 7.1. Persistence and multiplication
- 7.1.1. Soil
- 7.1.2. Water

- 7.1.3. Air
- 7.2. Mobility
- 7.3. Summary and evaluation of fate and behaviour in the environment
- VIII. EFFECTS ON NON-TARGET ORGANISMS
- 8.1. Effects on birds
- 8.2. Effects on aquatic organisms
- 8.2.1. Effects on fish
- 8.2.2. Effects on freshwater invertebrates
- 8.2.3. Effects on algae growth
- 8.2.4. Effects on plants other than algae
- 8.3. Effects on bees
- 8.4. Effects on arthropods other than bees
- 8.5. Effects on earthworms
- 8.6. Effects on soil micro-organisms
- 8.7. Further studies
- 8.7.1. Terrestrial plants
- 8.7.2. Mammals
- 8.7.3. Other relevant species and processes
- 8.8. Summary and evaluation of effects on non-target organisms
- IX. CLASSIFICATION AND LABELLING

The dossier shall be accompanied by a reasoned proposals for allocating an active substance which is a micro-organism to one of the risk groups specified in Article 2 of Directive 2000/54/ EC of the European Parliament and of the Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work⁽⁴⁾ together with indications on the need for products to carry the biohazard sign specified in Annex II to that Directive. X.SUMMARY AND EVALUATION OF SECTIONS I TO IX INCLUDING CONCLUSIONS OF THE RISK ASSESSMENT AND RECOMMENDATIONS

ANNEX IVB

DATA SET FOR BIOCIDAL PRODUCTS MICRO-ORGANISMS INCLUDING VIRUSES AND FUNGI

1. For the purposes of this Annex, the term micro-organisms shall be understood as including also viruses and fungi. This Annex provides data requirements for the authorisation of a biocidal product based on preparations of micro-organisms. For all

biocidal products based on preparations containing micro-organisms that are subject to application, all available relevant knowledge and information in literature should be provided. The information related to the identification and characterisation of all components in a biocidal product is particularly important and must be entered in sections I to IV and provides the basis for an assessment of possible impacts on human health and the environment.

- 2. Where, information is not necessary owing to the nature of the biocidal product Article 8(5) shall apply.
- 3. Information may be derived from existing data where a justification acceptable to the competent authority is provided. In particular, the provisions of Directive 67/548/EEC and Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations⁽⁵⁾ shall be used wherever possible to minimise animal testing.
- 4. Where testing is done, a detailed description (specification) of the material used and its impurities, according to the provisions of Section II, must be provided. Where necessary, data as established in Annexes IIB, IIIB shall be required for all the toxicologically/eco-toxicologically relevant chemical components of the biocidal product, in particular if the components are substances of concern as defined in Article 2(1)(e).
- 5. In cases where a new preparation is to be dealt with, extrapolation from Annex IVA, could be acceptable, provided that all the possible effects of the components, especially on pathogenicity and infectiveness, are evaluated.

Dossier requirements

SECTIONS:

- I. Identity of the biocidal product
- II. Physical, chemical and technical properties of the biocidal product
- III. Data on application
- IV. Further information on the biocidal product
- V. Analytical methods
- VI. Efficacy data
- VII. Effects on human health
- VIII. Residues in or on treated materials, food and feed
- IX. Fate and behaviour in the environment
- X. Effects on non-target organisms
- XI. Classification, packaging and labelling of the biocidal product
- XII. Summary and evaluation of sections I to XI including conclusions of the risk assessment and recommendations

The following data will be required to support submissions on the above points.

I. IDENTITY OF THE BIOCIDAL PRODUCTS

- 1.1. Applicant
- 1.2. Manufacturer of the biocidal product and the micro-organism(s)
- 1.3. Trade name or proposed trade name, and manufacturer's development code number of the biocidal product
- 1.4. Detailed quantitative and qualitative information on the composition of the biocidal product
- 1.5. Physical state and nature of the biocidal product
- 1.6. Function
- II. PHYSICAL, CHEMICAL AND TECHNICAL PROPERTIES OF THE BIOCIDAL PRODUCT
- 2.1. Appearance (colour and odour)
- 2.2. Storage stability and shelf-life
- 2.2.1. Effects of light, temperature and humidity on technical characteristics of the biocidal product
- 2.2.2. Other factors affecting stability
- 2.3. Explosivity and oxidising properties
- 2.4. Flash point and other indications of flammability or spontaneous ignition
- 2.5. Acidity, alkalinity and pH value
- 2.6. Viscosity and surface tension
- 2.7. Technical characteristics of the biocidal product
- 2.7.1. Wettability
- 2.7.2. Persistent foaming
- 2.7.3. Suspensibility and suspension stability
- 2.7.4. Dry sieve test and wet sieve test
- 2.7.5. Particle size distribution (dustable and wettable powders, granules), content of dust/fines (granules), attrition and friability (granules)
- 2.7.6. Emulsifiability, re-emulsifiability, emulsion stability
- 2.7.7. Flowability, pourability (rinsability) and dustability
- 2.8. Physical, chemical and biological compatibility with other products including biocidal products with which its use is to be authorised or registered
- 2.8.1. Physical compatibility
- 2.8.2. Chemical compatibility
- 2.8.3. Biological compatibility

- 2.9. Summary and evaluation of physical, chemical and technical properties of the biocidal product
- III. DATA ON APPLICATION
- 3.1. Field of use envisaged
- 3.2. Mode of action
- 3.3. Details of intended use
- 3.4. Application rate
- 3.5. Content of micro-organism in material used (e.g. in the application device or bait)
- 3.6. Method of application
- 3.7. Number and timing of applications and duration of protection
- 3.8. Necessary waiting periods or other precautions to avoid adverse effects to human and animal health and the environment
- 3.9. Proposed instructions for use
- 3.10. Category of users
- 3.11. Information on the possible occurrence of the development of resistance
- 3.12. Effects on the materials or products treated with the biocidal product
- IV. FURTHER INFORMATION ON THE BIOCIDAL PRODUCT
- 4.1. Packaging and compatibility of the biocidal product with proposed packaging materials
- 4.2. Procedures for cleaning application equipment
- 4.3. Re-entry periods, necessary waiting periods or other precautions to protect man, livestock and the environment
- 4.4. Recommended methods and precautions concerning: handling, storage, transport or fire
- 4.5. Measures in the case of an accident
- 4.6. Procedures for destruction or decontamination of the biocidal product and its packaging
- 4.6.1. Controlled incineration
- 4.6.2. Others
- 4.7. Monitoring plan to be used for the active micro-organism and other micro-organism(s) contained in the biocidal product including handling, storage, transport and use
- V. ANALYTICAL METHODS
- 5.1. Methods for the analysis of the biocidal product
- 5.2. Methods to determine and quantify residues VI.EFFICACY DATA

10.7.3.

PRODUCT

10.8.

XI.

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

VII. EFFECTS ON HUMAN HEALTH 7.1. Basic acute toxicity studies 7 1 1 Acute oral toxicity 7.1.2. Acute inhalation toxicity 7.1.3. Acute percutaneous toxicity 7.2. Additional acute toxicity studies 7.2.1. Skin irritation 7.2.2. Eye irritation 723 Skin sensitisation 7.3. Data on exposure 7.4. Available toxicological data relating to non-active substances 7.5. Supplementary studies for combinations of biocidal products 7.6. Summary and evaluation of effects on human health VIII.RESIDUES IN OR ON TREATED MATERIALS, FOOD AND FEED IX.FATE AND BEHAVIOUR IN THE ENVIRONMENT X. EFFECTS ON NON-TARGET ORGANISMS 10.1. Effects on birds 10 2 Effects on aquatic organisms 10.3. Effects on bees 10.4. Effects on arthropods other than bees 10.5. Effects on earthworms 10.6. Effects on soil micro-organisms 10.7. Additional studies on additional species or higher tier studies such as studies on selected non-target organisms 10.7.1. Terrestrial plants 10.7.2. Mammals

As established in Article 20, proposals including justification for the classification and labelling of the biocidal product in accordance with the provisions set in Directive 67/548/EEC and

CLASSIFICATION, PACKAGING AND LABELLING OF THE BIOCIDAL

Summary and evaluation of effects on non-target organisms

Other relevant species and processes

Directive 1999/45/EC must be submitted. The classification comprises of the description of the category/categories of danger and qualifying risk phrases for all dangerous properties. On the basis of the classification, a proposal for labelling including the hazard symbol(s) and indications of danger, risk phrases and safety phrases should be given. The classification and labelling shall be in regard to the chemical substances contained in the biocidal product. If necessary, specimens of proposed packaging shall be submitted to the competent authority of a Member State.

The dossier shall be accompanied by a reasoned proposal for allocation to one of the risk groups specified in Article 2 of Directive 2000/54/EC together with indications on the need for products to carry the biohazard sign specified in Annex II to that Directive.

XII.SUMMARY AND EVALUATION OF SECTIONS I TO XI INCLUDING CONCLUSIONS OF THE RISK ASSESSMENT AND RECOMMENDATIONS

ANNEX V

BIOCIDAL PRODUCT-TYPES AND THEIR DESCRIPTIONS AS REFERRED TO IN ARTICLE 2(1)(a) OF THIS DIRECTIVE

These product-types exclude products where they are covered by the Directives mentioned in Article 1(2) of this Directive for the purposes of these Directives and their subsequent modifications.

MAIN GROUP 1: Disinfectants and general biocidal products

These product types exclude cleaning products that are not intended to have a biocidal effect, including washing liquids, powders and similar products.

Product-type 1: Human hygiene biocidal products

Products in this group are biocidal products used for human hygiene purposes.

Product-type 2: Private area and public health area disinfectants and other biocidal products

Products used for the disinfection of air, surfaces, materials, equipment and furniture which are not used for direct food or feed contact in private, public and industrial areas, including hospitals, as well as products used as algaecides.

Usage areas include, *inter alia*, swimming pools, aquariums, bathing and other waters; airconditioning systems; walls and floors in health and other institutions; chemical toilets, waste water, hospital waste, soil or other substrates (in playgrounds).

Product-type 3: Veterinary hygiene biocidal products

Products in this group are biocidal products used for veterinary hygiene purposes including products used in areas in which animals are housed, kept or transported.

Product-type 4: Food and feed area disinfectants

Products used for the disinfection of equipment, containers, consumption utensils, surfaces or pipework associated with the production, transport, storage or consumption of food, feed or drink (including drinking water) for humans and animals.

Product-type 5: Drinking water disinfectants

Products used for the disinfection of drinking water (for both humans and animals).

MAIN GROUP 2: Preservatives

Product-type 6: In-can preservatives

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Products used for the preservation of manufactured products, other than foodstuffs or feedingstuffs, in containers by the control of microbial deterioration to ensure their shelf life. Product-type 7: Film preservatives

Products used for the preservation of films or coatings by the control of microbial deterioration in order to protect the initial properties of the surface of materials or objects such as paints, plastics, sealants, wall adhesives, binders, papers, art works.

Product-type 8: Wood preservatives

Products used for the preservation of wood, from and including the saw-mill stage, or wood products by the control of wood-destroying or wood-disfiguring organisms.

This product type includes both preventive and curative products.

Product-type 9: Fibre, leather, rubber and polymerised materials preservatives

Products used for the preservation of fibrous or polymerised materials, such as leather, rubber or paper or textile products and rubber by the control of microbiological deterioration.

Product-type 10: Masonry preservatives

Products used for preservation and remedial treatment of masonry or other construction materials other than wood by the control of microbiological and algal attack.

Product-type 11: Preservatives for liquid-cooling and processing systems

Products used for the preservation of water or other liquids used in cooling and processing systems by the control of harmful organisms such as microbes, algae and mussels.

Products used for the preservation of drinking water are not included in this product type. Product-type 12: Slimicides

Products used for the prevention or control of slime growth on materials, equipment and structures, used in industrial processes, e.g. on wood and paper pulp, porous sand strata in oil extraction.

Product-type 13: Metalworking-fluid preservatives

Products used for the preservation of metalworking fluids by the control of microbial deterioration.

MAIN GROUP 3: Pest control Product-type 14: Rodenticides

Products used for the control of mice, rats or other rodents.

Product-type 15: Avicides

Products used for the control of birds.

Product-type 16: Molluscicides

Products used for the control of molluscs.

Product-type 17: Piscicides

Products used for the control of fish; these products exclude products for the treatment of fish diseases.

Product-type 18: Insecticides, acaricides and products to control other arthropods

Products used for the control of arthropods (e.g. insects, arachnids and crustaceans).

Product-type 19: Repellents and attractants

Products used to control harmful organisms (invertebrates such as fleas, vertebrates such as birds), by repelling or attracting, including those that are used for human or veterinary hygiene either directly or indirectly.

MAIN GROUP 4: Other biocidal products

Product-type 20: Preservatives for food or feedstocks

Products used for the preservation of food or feedstocks by the control of harmful organisms. Product-type 21: Antifouling products

Products used to control the growth and settlement of fouling organisms (microbes and higher forms of plant or animal species) on vessels, aquaculture equipment or other structures used in water.

Product-type 22: Embalming and taxidermist fluids

Products used for the disinfection and preservation of human or animal corpses, or parts thereof. Product-type 23: Control of other vertebrates

Products used for the control of vermin.

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ANNEX VI

COMMON PRINCIPLES FOR THE EVALUATION OF DOSSIERS FOR BIOCIDAL PRODUCTS

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(a) Hazard identification

This is the identification of the adverse effects which a biocidal product has an inherent capacity to cause.

(b) Dose (concentration) — response (effect) assessment

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This is the estimate of the relationship between the dose, or level of exposure, of an active substance or substance of concern in a biocidal product and the incidence and severity of an effect.

(c) Exposure assessment

This is the determination of the emissions, pathways and rates of movement of an active substance or a substance of concern in a biocidal product and its transformation or degradation in order to estimate the concentration/doses to which human populations, animals or environmental compartments are or may be exposed.

(d) Risk characterisation

This is the estimation of the incidence and severity of the adverse effects likely to occur in a human population, animals or environmental compartments due to actual or predicted exposure to any active substance or substance of concern in a biocidal product. This may include 'risk estimation' i.e. the quantification of that likelihood.

Environment

Water, including sediment, air, land, wild species of fauna and flora, and any interrelationship between them, as well as any relationship with living organisms. INTRODUCTION

- 1. This Annex lays down principles to ensure that evaluations made and decisions taken by a Member State concerning the authorisation of a biocidal product providing it is a chemical preparation results in a harmonised high level of protection for humans, animals and the environment in accordance with Article 5(1)(b) of this Directive.
- In order to ensure a high and harmonised level of protection of human and animal 2. health and of the environment, any risks arising from the use of a biocidal product shall be identified. To achieve this a risk assessment shall be carried out to determine the acceptability or otherwise of any risks identified during the proposed normal use of the biocidal product. This is done by carrying out an assessment of the risks associated with the relevant individual components of the biocidal product.
- 3. A risk assessment on the active substance or substances present in the biocidal product is always required. This will already have been carried out for the purpose of Annexes I, IA or IB. This risk assessment shall entail hazard identification, and, as appropriate, dose (concentration) — response (effect) assessment, exposure assessment and risk characterisation. Where a quantitative risk assessment cannot be made a qualitative assessment shall be produced.
- 4. Additional risk assessments shall be carried out, in the same manner as described above, on any other substance of concern present in the biocidal product where relevant for the use of the biocidal product.
- 5. In order to carry out a risk assessment data are required. These data are detailed in Annexes II, III and IV and, recognising that there are a wide variety of product types, are flexible according to the product type and associated risks. The data required shall be the minimum necessary to carry out an appropriate risk assessment. Member States should take due consideration of the requirements of Articles 12 and 13 of this Directive in order to avoid duplication of data submissions. The minimum set of data required for an active substance in any biocidal product type, however, shall be that detailed in Annex VIIA to Directive 67/548/EEC; these data will already have been submitted and assessed as part of the risk assessment required for entry of the active

- substance into Annex I, IA or IB to this Directive. Data may also be required on a substance of concern present in a biocidal product.
- 6. The results of the risk assessments carried out on an active substance and on a substance of concern present in the biocidal product shall be integrated to produce an overall assessment for the biocidal product itself.
- 7. When making evaluations and taking decisions concerning the authorisation of a biocidal product the Member State shall:
- (a) take into consideration other relevant technical or scientific information which is reasonably available to them with regard to the properties of the biocidal product, its components, metabolites, or residues;
- (b) evaluate, where relevant, justifications submitted by the applicant for not supplying certain data.
- 8. The Member State shall comply with the requirements of mutual recognition as stated in Articles 4(1), (2) and (6) of this Directive.
- 9. It is known that many biocidal products present only minor differences in composition and this should be taken into account when evaluating dossiers. The concept of 'frameformulations' is relevant here.
- 10. It is known that certain biocidal products are considered as posing only a low risk, these biocidal products, while complying with the requirements of this Annex, are subject to a simplified procedure as detailed in Article 3 of this Directive.
- 11. The application of these common principles shall lead to the Member State deciding whether or not a biocidal product can be authorised, such authorisation may include restrictions on use or other conditions. In certain cases the Member State may conclude that more data are required before an authorisation decision can be made.
- During the process of evaluation and decision-making, Member States and applicants shall cooperate in order to resolve any questions on the data requirements quickly or to identify at an early stage any additional studies required, or to amend any proposed conditions for the use of the biocidal product or to modify its nature or its composition in order to ensure full compliance with the requirements of this Annex or of this Directive. The administrative burden, especially for small and medium-sized enterprises (SMEs), shall be kept to the minimum necessary without prejudicing the level of protection afforded to humans, animals and the environment.
- The judgments made by the Member State during the evaluation and decision-making process must be based on scientific principles, preferably recognised at international level, and be made with the benefit of expert advice.

EVALUATION General principles

- 14. The data submitted in support of an application for authorisation of a biocidal product shall be examined for completeness and overall scientific value by the receiving Member State. After acceptance of these data the Member State shall utilise them by carrying out a risk assessment based on the proposed use of the biocidal product.
- 15. A risk assessment on the active substance present in the biocidal product shall always be carried out. If there are, in addition, any substances of concern present in the biocidal product then a risk assessment shall be carried out for each of these. The risk assessment shall cover the proposed normal use of the biocidal product together with

- a realistic worst-case scenario including any relevant production and disposal issue either of the biocidal product itself or any material treated with it.
- 16. For each active substance and each substance of concern present in the biocidal product, the risk assessment shall entail a hazard identification and the establishment of appropriate no-observed-adverse-effect levels (NOAEL), where possible. It shall also include, as appropriate, a dose (concentration) — response (effect) assessment, together with an exposure assessment and a risk characterisation.
- 17. The results arrived at from a comparison of the exposure to the no-effect level concentrations for each of the active substances and any substances of concern shall be integrated to produce an overall risk assessment for the biocidal product. Where quantitative results are not available the results of the qualitative assessments shall be integrated in a similar manner.
- 18. The risk assessment shall determine:
- the risk to humans and animals, (a)
- (b) the risk to the environment,
- (c) the measures necessary to protect humans, animals and the general environment during both the proposed normal use of the biocidal product and in a realistic worst-case situation.
- 19. In certain cases it may be concluded that further data are required before a risk assessment can be finalised. Any such additional data requested shall be the minimum necessary to complete such a risk assessment.

Effects on humans

- 20. The risk assessment shall take account of the following potential effects arising from the use of the biocidal product and the populations liable to exposure.
- 21. The effects previously mentioned result from the properties of the active substance and any substance of concern present. They are:
- acute and chronic toxicity, irritation, corrosivity, sensitisation, repeated dose toxicity, mutagenicity,
- carcinogenicity,
- reproduction toxicity,
- neurotoxicity,
- any other special properties of the active substance or substance of concern,
- other effects due to physico-chemical properties.
- The populations previously mentioned are: 22.
- professional users,
- non-professional users,
- humans exposed indirectly via the environment.
- 23. The hazard identification shall address the properties and potential adverse effects of the active substance and any substances of concern present in the biocidal product. If

- this results in the biocidal product being classified according to the requirements of Article 20 of this Directive then dose (concentration) response (effect) assessment, exposure assessment and risk characterisation shall be required.
- 24. In those cases where the test appropriate to hazard identification in relation to a particular potential effect of an active substance or a substance of concern present in a biocidal product has been conducted but the results have not lead to classification of the biocidal product then risk characterisation in relation to that effect shall not be necessary unless there are other reasonable grounds for concern, e.g. adverse environmental effects or unacceptable residues.
- 25. The Member State shall apply paragraphs 26 to 29 when carrying out a dose (concentration) response (effect) assessment on an active substance or a substance of concern present in a biocidal product.
- 26. For repeated dose toxicity and reproductive toxicity the dose response relationship shall be assessed for each active substance or substance of concern and, where possible, the no-observed-adverse-effect level (NOAEL) identified. If it is not possible to identify a NOAEL, the lowest-observed-adverse-effect level (LOAEL) shall be identified.
- 27. For acute toxicity, corrosivity and irritation, it is not usually possible to derive a NOAEL or LOAEL on the basis of tests conducted in accordance with the requirements of this Directive. For acute toxicity, the LD50 (median lethal dose) or LC50 (median lethal concentration) value or, where the fixed dose procedure has been used, the discriminating dose shall be derived. For the other effects it shall be sufficient to determine whether the active substance or substance of concern has an inherent capacity to cause such effects during use of the product.
- 28. For mutagenicity and carcinogenicity it shall be sufficient to determine whether the active substance or substance of concern has an inherent capacity to cause such effects during use of the biocidal product. However, if it can be demonstrated that an active substance or a substance of concern identified as a carcinogen is non-genotoxic, it will be appropriate to identify a N(L)OAEL as described in paragraph 26.
- 29. With respect to skin sensitisation and respiratory sensitisation, in so far as there is no consensus on the possibility of identifying a dose/concentration below which adverse effects are unlikely to occur in a subject already sensitised to a given substance, it shall be sufficient to evaluate whether the active substance or substance of concern has an inherent capacity to cause such effects during use of the biocidal product.
- 30. Where toxicity data derived from observations of human exposure, e.g. information gained from manufacture, from poison centres or epidemiology surveys, are available special consideration shall be given to those data when carrying out the risk assessment.
- 31. An exposure assessment shall be carried out for each of the human populations (professional users, non-professional users and humans exposed indirectly via the environment) for which exposure to a biocidal product occurs or can reasonably be foreseen. The objective of the assessment shall be to make a quantitative or qualitative estimate of the dose/concentration of each active substance or substance of concern to which a population is, or may be exposed during use of the biocidal product.
- 32. The exposure assessment shall be based on the information in the technical dossier provided in conformity with Article 8 of this Directive and on any other available and relevant information. Particular account shall be taken, as appropriate, of:

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- adequately measured exposure data,
- the form in which the product is marketed,
- the type of biocidal product,
- the application method and application rate,
- the physico-chemical properties of the product,
- the likely routes of exposure and potential for absorption,
- the frequency and duration of exposure,
- the type and size of specific exposed populations where such information is available.
- Where adequately measured, representative exposure data are available, special consideration shall be given to them when conducting the exposure assessment. Where calculation methods are used for the estimation of exposure levels, adequate models shall be applied.

These models shall:

- make a best possible estimation of all relevant processes taking into account realistic parameters and assumptions,
- be subjected to an analysis taking into account possible elements of uncertainty,
- be reliably validated with measurements carried out under circumstances relevant for the use of the model,
- be relevant to the conditions in the area of use.

Relevant monitoring data from substances with analogous use and exposure patterns or analogous properties shall also be considered.

34. Where, for any of the effects set out in paragraph 21 a NOAEL or LOAEL had been identified, the risk characterisation shall entail comparison of the NOAEL or LOAEL with the evaluation of the dose/concentration to which the population will be exposed. Where a NOAEL or LOAEL cannot be established a qualitative comparison shall be made.

Effects on animals

35. Using the same relevant principles as described in the section dealing with effects on humans, the Member State shall consider the risks posed to animals from the biocidal product.

Effects on the environment

- 36. The risk assessment shall take account of any adverse effects arising in any of the three environmental compartments air, soil and water (including sediment) and of the biota following the use of the biocidal product.
- The hazard identification shall address the properties and potential adverse effects of the active substance and any substances of concern present in the biocidal product. If this results in the biocidal product being classified according to the requirements of this Directive then dose (concentration) response (effect) assessment, exposure assessment and risk characterisation shall be required.
- 38. In those cases where the test appropriate to hazard identification in relation to a particular potential effect of an active substance or a substance of concern present in a biocidal product has been conducted but the results have not led to classification of the biocidal product then riskcharacterisation in relation to that effect shall not be necessary unless there are other reasonable grounds for concern. Such grounds may derive from the properties and effects of any active substance or substance of concern in the biocidal product, in particular:

 any indications of bioaccumulation pote	ntial
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- the persistence characteristics,
- the shape of the toxicity/time curve in ecotoxicity testing,
- indications of other adverse effects on the basis of toxicity studies (e.g. classification as a mutagen),
- data on structurally analogous substances,
- endocrine effects.
- 39. A dose (concentration) response (effect) assessment shall be carried out in order to predict the concentration below which adverse effects in the environmental compartment of concern are not expected to occur. This shall be carried out for the active substance and for any substance of concern present in the biocidal product. This concentration is known as the predicted no-effect concentration (PNEC). However, in some cases, it may not be possible to establish a PNEC and a qualitative estimation of the dose (concentration) response (effect) then has to be made.
- 40. The PNEC shall be determined from the data on effects on organisms and ecotoxicity studies submitted in accordance with requirements of Article 8 of this Directive. It shall be calculated by applying an assessment factor to the values resulting from tests on organisms, e.g. LD50 (median lethal dose), LC50 (median lethal concentration), EC50 (median effective concentration), IC50 (concentration causing 50 % inhibition of a given parameter, e.g. growth), NOEL(C) (no-observed-effect level (concentration)).
- 41. An assessment factor is an expression of the degree of uncertainty in extrapolation from test data on a limited number of species to the real environment. Therefore, in general, the more extensive the data and the longer the duration of the tests, the smaller is the degree of uncertainty and the size of the assessment factor.

The specifications for the assessment factors shall be elaborated in the notes for technical guidance which, to this end, shall be based particularly on the indications given in Commission Directive 93/67/EEC of 20 July 1993 laying down the principles for assessment of risks to man and environment from substances notified in accordance with Council Directive 67/548/EEC⁽⁶⁾.

- 42. For each environmental compartment an exposure assessment shall be carried out in order to predict the concentration likely to be found of each active substance or substance of concern present in the biocidal product. This concentration is known as the predicted environmental concentration (PEC). However in some cases it may not be possible to establish a PEC and a qualitative estimate of exposure then has to be made
- 43. A PEC, or where necessary a qualitative estimate of exposure, need only be determined for the environmental compartments to which emissions, discharges, disposal or distributions including any relevant contribution from material treated with biocidal products are known or are reasonably foreseeable.
- 44. The PEC, or qualitative estimation of exposure, shall be determined taking account of, in particular, and if appropriate:
- adequately measured exposure data,
- the form in which the product is marketed,
- the type of biocidal product,
- the application method and application rate,
- the physico-chemical properties,

- breakdown/transformation products,
- likely pathways to environmental compartments and potential for adsorption/ desorption and degradation,
- the frequency and duration of exposure.
- Where adequately measured, representative exposure data are available, special consideration shall be given to them when conducting the exposure assessment. Where calculation methods are used for the estimation of exposure levels, adequate models shall be applied. The characteristics of these models shall be as listed in paragraph 33. Where appropriate, on a case-by-case basis, relevant monitoring data from substances with analogous use and exposure patterns or analogous properties should also be considered.
- 46. For any given environmental compartment, the risk characterisation shall, as far as possible, entail comparison of the PEC with the PNEC so that a PEC/PNEC ratio may be derived.
- 47. If it has not been possible to derive a PEC/PNEC ratio, the risk characterisation shall entail a qualitative evaluation of the likelihood that an effect is occurring under the current conditions of exposure or will occur under the expected conditions of exposure.

Unacceptable effects

- Data shall be submitted to and evaluated by the Member State to assess whether the biocidal product does not cause unnecessary suffering in its effect on target vertebrates. This shall include an evaluation of the mechanism by which the effect is obtained and the observed effects on the behaviour and health of the target vertebrates; where the intended effect is to kill the target vertebrate the time necessary to obtain the death of the target vertebrate and the conditions under which death occurs shall be evaluated.
- 49. The Member State shall, where relevant, evaluate the possibility of the development of resistance to an active substance in the biocidal product by the target organism.
- 50. If there are indications that any other unacceptable effects may occur the Member State shall evaluate the possibility of such effects occurring. An example of such an unacceptable effect would be an adverse reaction to fastenings and fittings used in wood following the application of a wood preservative.

Efficacy

- Data shall be submitted and evaluated to ascertain if the efficacy claims of the biocidal product can be substantiated. Data submitted by the applicant or held by the Member State must be able to demonstrate the efficacy of the biocidal product against the target organism when used normally in accordance with the conditions of authorisation.
- 52. Testing should be carried out according to Community guidelines if these are available and applicable. Where appropriate, other methods can be used as shown in the list below. If relevant acceptable field data exist, these can be used.
- ISO, CEN or other international standard method
- national standard method
- industry standard method (accepted by Member State)
- individual producer standard method (accepted by Member State)
- data from the actual development of the biocidal product (accepted by Member State).

Summary

- In each of the areas where risk assessments have been carried out, i.e. effects on man, animals, and the environment, the Member State shall combine the results for the active substance together with the results for any substance of concern to produce an overall assessment for the biocidal product itself. This should take account of any likely synergistic effects of the active substance(s) and substances of concern in the biocidal product.
- 54. For biocidal products containing more than one active substance any adverse effects shall also be combined to produce an overall effect for the biocidal product itself.

DECISION MAKING General principles

- 55. Subject to paragraph 96, the Member State shall come to a decision regarding the authorisation for use of a biocidal product as a result of the integration of the risks arising from each active substance together with the risks from each substance of concern present in the biocidal product. The risk assessments shall cover normal use of the biocidal product together with a realistic worst-case scenario including any relevant disposal issue either of the biocidal product itself or any material treated with it
- 56. In making a decision concerning authorisation, the Member State shall arrive at one of the following conclusions for each product type and for each area of use of the biocidal product for which application has been made:
- 1. the biocidal product cannot be authorised:
- 2. the biocidal product can be authorised subject to specific conditions/restrictions;
- 3. more data is required before a decision on authorisation can be made.
- 57. If the conclusion arrived at by the Member State is that additional information or data are required before an authorisation decision can be made, then the need for any such information or data shall be justified. This additional information or data shall be the minimum necessary to carry out a further appropriate risk assessment.
- 58. The Member State shall comply with the principles of mutual recognition as detailed in Article 4 of this Directive.
- 59. The Member State shall apply the rules concerning the concept of 'frame formulations' when making an authorisation decision on a biocidal product.
- 60. The Member State shall apply the rules concerning the concept of 'low risk' products when making an authorisation decision on such a biocidal product.
- 61. The Member State shall only grant authorisation to those biocidal products which, when used according to their conditions of authorisation, do not present an unacceptable risk to humans, animals or the environment, are efficacious and which contain active substances permitted at Community level to be used in such biocidal products.
- 62. The Member State shall impose, where appropriate, conditions or restrictions when giving authorisations. The nature and severity of these shall be selected on the basis of, and be appropriate to, the nature and extent of the expected advantages and the risks likely to arise from the use of the biocidal product.

- 63. In the decision-making process the Member State shall take into consideration the following:
- the results of the risk assessment, in particular the relationship between exposure and effect.
- the nature and severity of the effect,
- the risk management which can be applied,
- the field of use of the biocidal product,
- the efficacy of the biocidal product,
- the physical properties of the biocidal product,
- the benefits of using the biocidal product.
- 64. The Member State shall, when taking a decision concerning the authorisation of a biocidal product, take into account the uncertainty arising from the variability in the data used in the evaluation and decision-making process.
- 65. The Member State shall prescribe that biocidal products shall be used properly. Proper use shall include application at an efficacious dose and minimisation of use of biocidal products where possible.
- 66. The Member State shall take the necessary measures to ensure that the applicant proposes a label, and, where relevant, the safety-data sheet, for the biocidal product which:
- fulfils the requirements of Articles 20 and 21 of this Directive,
- contains the information on the protection of users required by Community legislation on worker protection,
- specifies in particular the conditions or restrictions under which the biocidal product may or may not be used.

Before issuing an authorisation the Member State shall confirm that these requirements must be satisfied.

67. The Member State shall take the necessary measures to ensure that the applicant proposes packaging and, where appropriate, the procedures for destruction or decontamination of the biocidal product and its packaging or any other relevant material associated with the biocidal product, which conforms to the relevant regulatory provisions.

Effects on humans

- 68. The Member State shall not authorise a biocidal product if the risk assessment confirms that, in foreseeable application including a realistic worst possible scenario, the product presents an unacceptable risk to humans.
- 69. The Member State shall consider possible effects on all human populations, namely professional users, non-professional users and humans exposed directly or indirectly through the environment when making a decision on the authorisation of a biocidal product.
- 70. The Member State shall examine the relationship between the exposure and the effect, and use this in the decision-making process. A number of factors need to be considered when examining this relationship and one of the most important is the nature of the adverse effect of the substance. These effects include acute toxicity, irritancy, corrosivity, sensitisation, repeated dose toxicity, mutagenicity, carcinogenicity, neurotoxicity, reproduction toxicity together with physico-chemical

properties, and any other adverse properties of the active substance or substance of concern.

71. The Member State shall, where possible, compare the results obtained with those obtained from previous risk assessments for an identical or similar adverse effect and decide on an appropriate margin of safety (MOS) when making an authorisation decision.

An appropriate MOS is typically 100 but an MOS higher or lower than this may be appropriate depending on, among other things, the nature of the critical toxicological effect.

- 72. The Member State shall, if appropriate, impose, as a condition of authorisation, the wearing of personal protective equipment such as respirators, breathing-masks, overalls, gloves and goggles in order to reduce exposure for professional operators. Such equipment must be readily available to them.
- 73. If for non-professional users the wearing of personal protective equipment would be the only possible method for reducing exposure, the product shall not normally be authorised.
- 74. If the relationship between the exposure and the effect cannot be reduced to an acceptable level then no authorisation can be given by the Member State for the biocidal product.
- 75. No biocidal product classified according to Article 20(1) of this Directive as toxic, very toxic or as a category 1 or 2 carcinogen, or as a category 1 or 2 mutagen, or classified as toxic for reproduction category 1 or 2, shall be authorised for use by the general public.

Effects on animals

- 76. The Member State shall not authorise a biocidal product if the risk assessment confirms that, in normal use, the biocidal product presents an unacceptable risk to non-target animals.
- 77. Using the same relevant criteria as described in the section dealing with effects on humans, the Member State shall consider the risks posed to animals from the biocidal product when making an authorisation decision.

Effects on the environment

78. The Member State shall not authorise a biocidal product if the risk assessment confirms that the active substance, or any substance of concern, or any degradation, or reaction product presents an unacceptable risk in any of the environmental compartments, water (including sediment), soil and air. This shall include the assessment of risks to non-target organisms in these compartments.

In considering whether there is an unacceptable risk Member States shall, when coming to a final decision in accordance with paragraph 96, take into account the criteria in paragraphs 81 to 91.

79. The basic tool used in the decision making is the PEC/PNEC ratio or, if this is not available, a qualitative estimation. Due consideration shall be given to the accuracy of this ratio due to variability in the data used both in measurements of concentration and of estimation.

In the determination of the PEC the most appropriate model should be used taking into account the environmental fate and behaviour of the biocidal product.

80. For any given environmental compartment if the PEC/PNEC ratio is equal to or less than 1 the risk characterisation shall be that no further information and/or testing are necessary.

If the PEC/PNEC ratio is greater than 1 the Member State shall judge, on the basis of the size of that ratio and on other relevant factors, if further information and/or testing are required to clarify the concern or if risk reduction measures are necessary or if the product cannot be given an authorisation at all. Relevant factors to be considered are those previously mentioned in paragraph 38.

Water

- 81. The Member State shall not authorise a biocidal product, if under the proposed conditions of use, the foreseeable concentration of the active substance or of any other substance of concern or of relevant metabolites or breakdown or reaction products in water (or its sediments) has an unacceptable impact on non-target species in the aquatic, marine or estuarine environment unless it is scientifically demonstrated that under relevant field conditions there is no unacceptable effect.
- 82. The Member State shall not authorise a biocidal product if, under the proposed conditions of use, the foreseeable concentration of the active substance or of any other substance of concern or of relevant metabolites or breakdown or reaction products in groundwater exceeds the lower of the following concentrations:
- (a) the maximum permissible concentration laid down by Directive 80/778/EEC, or
- (b) the maximum concentration as laid down following the procedure for including the active substance in Annex I, IA or IB to this Directive, on the basis of appropriate data, in particular toxicological data

unless it is scientifically demonstrated that under relevant field conditions the lower concentration is not exceeded.

- 83. The Member State shall not authorise a biocidal product if the foreseeable concentration of the active substance or a substance of concern or of relevant metabolites, breakdown or reaction products to be expected in surface water or its sediments after use of the biocidal product under the proposed conditions of use:
- exceeds, where the surface water in or from the area of envisaged use is intended for the abstraction of drinking water, the values fixed by
 - Council Directive 75/440/EEC of 16 June 1975 concerning the quality required of surface water intended for the abstraction of drinking water in the Member States⁽⁷⁾,
 - Directive 80/778/EEC or
- has an impact deemed unacceptable on non-target species

unless it is scientifically demonstrated that under relevant field conditions this concentration is not exceeded.

84. The proposed instructions for use of the biocidal product, including procedures for cleaning application equipment, must be such that the likelihood of accidental contamination of water or its sediments is minimised.

Soil

Where unacceptable contamination of soil is likely to occur, the Member State shall not authorise a biocidal product if the active substance or substance of concern contained in it, after use of the biocidal product:

- during tests in the field, persists in soil for more than one year, or
- during laboratory tests, forms non-extractable residues in amounts exceeding 70 % of the initial dose after 100 days with a mineralisation rate of less than 5 % in 100 days,
- has unacceptable consequences or effects on non-target organisms,

unless it is scientifically demonstrated that under field conditions there is no unacceptable accumulation in soil.

Air

86. The Member State shall not authorise a biocidal product where there is a foreseeable possibility of unacceptable effects on the air compartment unless it is scientifically demonstrated that under relevant field conditions there is no unacceptable effect.

Effects on non-target organisms

- 87. The Member State shall not authorise a biocidal product where there is a reasonably foreseeable possibility of non-target organisms being exposed to the biocidal product if for any active substance or substance of concern:
- the PEC/PNEC is above 1 unless it is clearly established in the risk assessment that under field conditions no unacceptable effects occur after use of the biocidal product according to the proposed conditions of use, or
- the bioconcentration factor (BCF) related to fat tissues in non-target vertebrates is above 1 unless it is clearly established in the risk assessment that under field conditions no unacceptable effects occur, either directly or indirectly, after use of the product according to the proposed conditions of use.
- 88. The Member State shall not authorise a biocidal product where there is a reasonably foreseeable possibility of aquatic organisms including marine and estuarine organisms being exposed to the biocidal product if for any active substance or substance of concern in it:
- the PEC/PNEC is above 1 unless it is clearly established in the risk assessment that under field conditions the viability of aquatic organisms including marine and estuarine organisms is not threatened by the biocidal product according to the proposed conditions of use, or
- the bioconcentration factor (BCF) is greater than 1 000 for substances which are readily biodegradable or greater than 100 for those which are not readily biodegradable unless it is clearly established in the risk assessment that under field conditions no unacceptable impact, either directly or indirectly, occurs on the viability of exposed organisms including marine and estuarine organisms after use of the biocidal product according to the proposed conditions of use.

By way of derogation from this paragraph, Member States may, however, authorise an antifouling product used on commercial, public service and naval seagoing vessels for a period of up to 10 years from the date on which this Directive enters into force if similar fouling control cannot be achieved by other practicable means. When implementing this provision, Member States shall, if appropriate, take into account relevant International Maritime Organisation (IMO) resolutions and recommendations.

89. The Member State shall not authorise a biocidal product where there is a reasonably foreseeable possibility of micro-organisms in sewage treatment plants being exposed to the biocidal product if for any active substance, substance of concern, relevant metabolite, breakdown or reaction product the PEC/PNEC ratio is above 1 unless it is clearly established in the risk assessment that under field conditions no unacceptable impact, either directly or indirectly, occurs on the viability of such micro-organisms.

Unacceptable effects

Document Generated: 2023-11-13

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- 90. If the development of resistance to the active substance in the biocidal product is likely the Member State shall take steps to minimise the consequences of this resistance. This may involve modification of the conditions of authorisation or even refusal of any authorisation.
- 91. An authorisation for a biocidal product intended to control vertebrates shall not be given unless:
- death is synchronous with the extinction of consciousness, or,
- death occurs immediately, or,
- vital functions are reduced gradually without signs of obvious suffering.

For repellent products, the intended effect shall be obtained without unnecessary suffering and pain for the target vertebrate. Efficacy

- 92. Member States shall not authorise a biocidal product which does not possess acceptable efficacy when used in accordance with the conditions specified on the proposed label or with other conditions of authorisation.
- 93. The level, consistency and duration of protection, control or other intended effects must, as a minimum, be similar to those resulting from suitable reference products, where such products exist, or to other means of control. Where no reference products exist, the biocidal product must give a defined level of protection or control in the areas of proposed use. Conclusions as to the performance of the biocidal product must be valid for all areas of proposed use and for all areas in the Member State except where the proposed label prescribes that the biocidal product is intended for use in specific circumstances. Member States shall evaluate dose response data generated in trials (which must include an untreated control) involving dose rates lower than the recommended rate, in order to assess if the recommended dose is the minimum necessary to achieve the desired effect.

Summary

94. In each of the areas where risk assessments have been carried out, i.e. effects on humans, animals, and the environment, the Member State shall combine the conclusions arrived at for the active substance and the substances of concern to produce an overall conclusion for the biocidal product itself. A summary should also be made of the efficacy assessment and of the unacceptable effects.

The result shall be:

- a summary of the effects of the biocidal product on humans,
- a summary of the effects of the biocidal product on animals,
- a summary of the effects of the biocidal product on the environment,
- a summary of the efficacy assessment,
- a summary of the unacceptable effects.

OVERALL INTEGRATION OF CONCLUSIONS

95. The Member State shall combine the individual conclusions arrived at with regard to effects of the biocidal product on the three sectors namely, humans, animals and the environment to arrive at an overall conclusion for the global effect of the biocidal product.

- 96. The Member State shall then take due consideration of any relevant unacceptable effects, the efficacy of the biocidal product and the benefits of using the biocidal product before taking an authorisation decision on the biocidal product.
- 97. The Member State shall ultimately decide whether or not the biocidal product can be authorised and whether this authorisation shall be subject to any restrictions or conditions in conformity with this Annex and this Directive.

- (1) OJ L 154, 5.6.1992, p. 1.
- (2) OJ L 229, 30.8.1980, p. 11. Directive as last amended by Directive 91/692/EEC (OJ L 377, 31.12.1991, p. 48).
- (**3**) OJ L 20, 26.1.1980, p. 43.
- (4) [F73OJ L 262, 17.10.2000, p. 21.
- (5) OJ L 200, 30.7.1999, p. 1. Directive as last amended by Commission Directive 2006/8/EC (OJ L 19, 24.1.2006, p. 12).]
- (6) OJ L 227, 8.9.1993, p. 9.
- (7) OJ L 194, 25.7.1975, p. 26. Directive as last amended by Directive 91/692/EEC (OJ L 377, 31.12.1991, p. 48).

Textual Amendments

F73 Substituted by Commission Directive 2006/50/EC of 29 May 2006 amending Annexes IVA and IVB to Directive 98/8/EC of the European Parliament and of the Council concerning the placing of biocidal products on the market (Text with EEA relevance).