

# List of carcinogenic, germ-cell mutagenic and reprotoxic substances (CMR substances)

The table below shows the classifications in categories according to CLP Regulation 1272/2008. The list contains CMR substances classified either according to Table 3 of Annex VI of the CLP Regulation or listed in TRGS 905 “List of carcinogenic, germ-cell mutagenic and reprotoxic substances” or in TRGS 906 “List of carcinogenic activities and processes according to section 3 (2) no. 3 of the German Hazardous Substances Regulation (GefStoffV)”.

(CMR – carcinogenic, mutagenic and reprotoxic; CLP: Classification, Labelling and Packaging).

The classification rules under Regulation (EC) No. 1272/2008 (CLP Regulation) require a manufacturer or importer to deviate from the harmonised classification given in Annex VI if the substance is known to fall under at least one hazard class or differentiation not covered by the relevant entry in Annex VI. In such a case, an extended classification is required over and above the one given in the Annex VI entry. These self-classifications are not harmonised. If there are differences between the classification under the safety data sheet and the harmonised classification under Table 3 of Annex VI of the CLP Regulation provided in the CMR List, the classification under the safety data sheet is decisive for the implementation of measures under the German Hazardous Substances Regulation (GefStoffV). However, irrespective of this, the entries in TRGS 905 and 906 still need to be observed.

**Any newly added or modified entries are marked with a “#” in the second column.**

Further explanatory notes on the entries in the table can be found at the end of the document.

The many different nickel compounds are grouped together in group entries. For nickel compounds, we recommend searching by CAS or EC numbers.

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Abamectin (combination of abamectin B1a and abamectin B1b) (ISO); Abamectin B1a (purity ≥ 80%) (618/2012)	71751-41-2 65195-55-3	615-339-5 265-610-3			2	
Acetaldehyde (2018/1480)	75-07-0	200-836-8	1B	2		
Acetamide	60-35-5	200-473-5	2			
Acetamipride (ISO); (1E)-N-[(6-chloropyridine-3-yl)-methyl]-N'-cyano-N-methylethanimidamide; (E)-N1-[(6-chloro-3-pyridyl)-methyl]-N2-cyano-N1-methylacetamidine (2022/692)	160430-64-8 135410-20-7	682-791-8 603-921-1			2	
Acetochlor (ISO) (2016/1179)	34256-82-1	251-899-3	2			2
Acetophenone, formaldehyde, cyclohexylamine, methanol and acetic acid, reaction product of	224635-63-6	406-230-1	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
N-[2-(3-Acetyl-5-nitrothiophen-2-ylazo)-5-diethylaminophenyl]acetamide	777891-21-1	416-860-9				2
Aclonifen (ISO); 2-chloro-6-nitro-3-phenoxyaniline (944/2013)	74070-46-5	277-704-1	2			
Acrylamide	79-06-1	201-173-7	1B	1B		2
Acrylnitrile	107-13-1	203-466-5	1B			
Alachlor	15972-60-8	240-110-8	2			
Aldrin (ISO)	309-00-2	206-215-8	2			
5-Allyl-1,3-benzodioxole	94-59-7	202-345-4	1B	2		
6-[(C10-C13)-Alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]-hexanoic acid (2022/692)	2156592-54-8	701-118-1			1B	1B
6-[(C12-18)-Alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]-hexanoic acid (2022/692)					1B	1B
6-[C12-18-Alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]-hexanoic acid, sodium- and tris(2-hydroxyethyl) ammonium salts (2022/692)					1B	1B
4-Allyl-2,6-bis(2,3-epoxypropyl)phenol; 4-allyl-6-[3-[6-[3-[6-[3-(4-allyl-2,6-bis(2,3-epoxypropyl)phenoxy)-2-hydroxypropyl]-4-allyl-2-(2,3-epoxypropyl)phenoxy]-2-hydroxypropyl]-4-allyl-2-(2,3-epoxypropyl)phenoxy]-2-hydroxypropyl]-2-(2,3-epoxypropyl)phenol; 4-allyl-6-[3-(4-allyl-2,6-bis(2,3-epoxypropyl)phenoxy)-2-hydroxypropyl]-2-(2,3-epoxypropyl)phenol; 4-allyl-6-[3-[6-[3-(4-allyl-2,6-bis(2,3-epoxypropyl)phenoxy)-2-hydroxypropyl]-4-allyl-2-(2,3-epoxypropyl)phenoxy]-2-hydroxypropyl]-2-(2,3-epoxypropyl)phenol, reaction mass of		417-470-1		2		
1-Allyloxy-2,3-epoxypropane	106-92-3	203-442-4	1B* 2	2	---	2
4-Aminoazobenzene	60-09-3	200-453-6	1B			
4-Aminobiphenyl	92-67-1	202-177-1	1A			
4-Aminobiphenyl, salts of			1A			
1-[2-(2-Aminobutoxy)ethoxy]but-2-ylamine and 1-([2-(2-aminobutoxy)ethoxy]methyl)propoxy]but-2-ylamine, reaction mass of (2018/1480)	897393-42-9	447-920-2				2
1-(2-Amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride; [content of 4-chloroaniline (EC No 203-401-0)< 0.1%] (790/2009)	214353-17-0	433-580-2	1B			
(R,S)-2-Amino-3,3-dimethylbutanamide (790/2009)	144177-62-8	447-860-7				2
6-Amino-2-ethoxynaphthalene (TRGS 905 No. 4)	293733-21-8	826-917-3	1B*			
2-(2-Aminoethylamino)ethanol (790/2009)	111-41-1	203-867-5			1B	2
3-Amino-9-ethylcarbazole (790/2009)	132-32-1	205-057-7	1B			
4-Amino-3-fluorophenol	399-95-1	402-230-0	1B			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
5-[(4-[(7-Amino-1-hydroxy-3-sulpho-2-naphthyl)azo]-2,5-diethoxyphenyl)azo]-2-[(3-phosphonophenyl)azo]benzoic acid and 5-[(4-[(7-amino-1-hydroxy-3-sulpho-2-naphthyl)azo]-2,5-diethoxyphenyl)azo]-3-[(3-phosphonophenyl)azo]benzoic acid, reaction mass of	163879-69-4	418-230-9				2
o-Aminophenol	95-55-6	202-431-1		2		
p-Aminophenol	123-30-8	204-616-2		2		
Amisulbrom (ISO); 3-(3-bromo-6-fluoro-2-methylindol-1-ylsulphonyl)-N,N-dimethyl-1H-1,2,4-triazole-1-sulphonamide (2018/1480)	348635-87-0	672-776-4	2			
Amitrole (ISO); 1,2,4-triazol-3-ylamine	61-82-5	200-521-5	---		2	
(6R-trans)-1-((7-Ammonio-2-carboxylato-8-oxo-5-thia-1-azabicyclo-[4.2.0]oct-2-ene-3-yl)methyl)pyridiniumiodide (790/2009)	100988-63-4	423-260-0		2		
2-{4-(2-Ammoniopropylamino)-6-[4-hydroxy-3-(5-methyl-2-methoxy-4-sulphamoylphenylazo)-2-sulphonatonaphth-7-ylamino]-1,3,5-triazin-2-ylamino}-2-aminopropylhydroformiate	784157-49-9	424-260-3				2
Ammonium bromide (2022/692)	12124-97-9	235-183-8			1B Lact.	1B
Ammonium dichromate	7789-09-5	232-143-1	1B	1B	1B	1B
Ammonium pentadecafluorooctanoate (944/2013)	3825-26-1	223-320-4	2		1B	
Ammonium perfluorooctane sulphonate – see: Perfluorooctane sulphonic acid						
Anabolic steroids (steroid hormones)			2*	---	1B*	1A*
Androgens (steroid hormones)			2*	---	1B*	1A*
Androgens, weak (steroid hormones)			---	---	2*	2*
Androsta-1,4,9(11)-trien-3,17-dion (790/2009)	15375-21-0	433-560-3				2
Aniline	62-53-3	200-539-3	2	2	---	---
Aniline, salts of			2	2		
Anthraquinone (2017/776)	84-65-1	201-549-0	1B			
Antu (ISO); 1-(1-naphthyl)-2-thiourea	86-88-4	201-706-3	2			
Arsenic acid	36465-76-6		1A*			
Arsenic acid (790/2009)	7778-39-4	231-901-9	1A			
Arsenic acid, salts, unless specified by name in the list (790/2009)			1A			
Drugs, carcinogenic (see TRGS 905)						

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Asbestos	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	601-649-8  601-801-3 616-471-6 616-473-7 616-472-1 601-650-3	1A			
Azafenidin	68049-83-2	620-425-0			1B	2
Azamethiphos (ISO); S- [(6-chloro-2-oxooxazolo [4,5-b]pyridin-3(2H)-yl) methyl]- O,O- dimethylthiophosphate (2021/849)	35575-96-3	252-626-0	2			
Azobenzene	103-33-3	203-102-5	1B	2	---	---
Azo dyes: Azo dyes with a carcinogenic amine component (H350). According to section 3 (2) of the German Hazardous Substances Regulation (GefStoffV) and TRGS 905 No. 4, mixtures of azo dyes with a carcinogenic amine component of category 1A or 1B must be classified as carcinogenic depending on their content of carcinogenic amine that can potentially be released through reductive azo cleavage and the content of the azo dye in the mixture (H350).			1A* or 1B*			
Benzidine-based azo dyes, with the exception of those specified by name			1B			
Azo dyes based on 3,3'-dimethoxybenzidine			1B			
Azo dyes based on 3,3'-dimethylbenzidine			1B			
Barium diboron tetraoxide (2022/692)	13701-59-2	237-222-4			1B	1B
Benfluralin (ISO); N-Butyl-N-ethyl- $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro-p-toluidine	# 1861-40-1	217-465-2	2		2	
Benfuracarb (ISO) (790/2009)	82560-54-1	617-356-3				2
Benomyl (ISO)	17804-35-2	241-775-7		1B	1B	1B
Bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-on-2,2-dioxide (2022/692)	25057-89-0	246-585-8			2	
Benzidine	92-87-5	202-199-1	1A			
Benzidine, salts of			1A			
Benzo[a]anthracene (790/2009)	56-55-3	200-280-6	1B			
Benzo[b]fluoranthene	205-99-2	205-911-9	1B			
Benzo[j]fluoranthene	205-82-3	205-910-3	1B			
Benzo[k]fluoranthene	207-08-9	205-916-6	1B			
Benzene	71-43-2	200-753-7	1A	1B		
1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivs.	# 68953-84-4	273-227-8			1B	1B

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich; di-iso-heptyl phthalate (790/2009)	71888-89-6	276-158-1	---	---	1B	2*
1,2-Benzenedicarboxylic acid, di-C7-9-branched and linear alkyl esters	68515-41-3	271-083-0	---	---	2*	---
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	---	---	1B	2
1,2-Benzenedicarboxylic acid, di-C9-11-branched and linear alkyl esters	68515-43-5	271-085-1	---	---	2*	---
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (2015/1221)	68515-50-4	271-093-5			1B	1B
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear n-pentyl isopentyl phthalate di-n-pentyl phthalate diisopentyl phthalate (DIPP)	84777-06-0 776297-69-9 131-18-0 605-50-5	284-032-2 933-378-9 205-017-9 210-088-4	---	---	1B	1B
Benzo[rs]pentaphene (2020/217)	189-55-9	205-877-5	1B	2		
Benzo[a]pyrene	50-32-8	200-028-5	1B	1B	1B	1B
Benzo[e]pyrene	192-97-2	205-892-7	1B			
Benzophenone (2022/692)	119-61-9	204-337-6	1B			
Benzyl butyl phthalate	85-68-7	201-622-7	---	---	1B	2
Benzyl 2,4-dibromobutanoate	23085-60-1	420-710-8				2
Benzyl(diethylamino)diphenylphosphonium4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate	# 577705-90-9	479-100-5				1B
2-Benzyl-2-dimethylamino-4'-morpholinobutyrophenone (2020/217)	119313-12-1	404-360-3			1B	
Benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] (1:1)	# 75768-65-9	278-305-5				1B
Benzyl violet 4B; (4-((4-(dimethylamino)phenyl)(4-(ethyl(3-sulphonatobenzyl)amino) phenyl)methylene)cyclohexa-2,5-dien-1-ylidene)(ethyl)(3-sulphonatobenzyl) ammonium, sodium salt	1694-09-3	216-901-9	2			
Beryllium	7440-41-7	231-150-7	1B H350 i			
Beryllium compounds, with the exception of beryllium alumina desilicates as well as those specified by name.			1B H350 i			
Beryllium oxide	1304-56-9	215-133-1	1B H350 i			
N-{2-[[1,1'-Bi(cyclopropyl)]-2-yl] phenyl}- 3-(difluormethyl)- 1-methyl-1H-pyrazole- 4-carboxamide; sedaxane (2021/849)	874967-67-6	688-331-2	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Bifenthrin (ISO); (2-methylbiphenyl-3-yl)methyl <i>rel</i> -(1 <i>R</i> ,3 <i>R</i> )-3-[(1 <i>Z</i> )-2-chloro-3,3,3-trifluorprop-1-en-1-yl]-2,2-dimethylcyclopropanecarboxylate (944/2013)	82657-04-3	617-373-6	2			
Binapacryl	485-31-4	207-612-9			1B	
Biphenyl-3,3',4,4'-tetrayltetraamine, salts of: see 3,3'-diaminobenzidine						
Biphenyl-2-ylamine	90-41-5	201-990-9	2			
(7-(4,6-Bis-(2-ammoniopropylamino)-1,3,5-triazin-2-ylamino)-4-hydroxy-3-((2-methoxyphenyl)azo)naphthaline-2-sulphonato)monoformiate	108225-03-2	402-060-7	1B			
2,2-Bis(brommethyl)propane-1,3-diol (2020/1182)	3296-90-0	221-967-7	1B	1B		
4,4'-Bis(N-carbamoyl-4-methyl benzene sulphonamide)diphenyl methane (790/2009)	151882-81-4	418-770-5	2			
Bis(chlormethyl) ether (790/2009)	542-88-1	208-832-8	1A			
Bis(cyclopenta-1,3-dienid-bis(2,6-difluoro3-(1H-pyrrol-1-yl)phenolide) titan(IV)	125051-32-3	412-000-1				2
6,6'-Bis(diazo-5,5',6,6'-tetrahydro-5,5'-dioxo)[methylenbis(5-(6-diazo-5,6-dihydro-5-oxo-1-naphthylsulphonyloxy)-6-methyl-2-phenyl)]di(naphthalene-1-sulphonate) (790/2009)		441-550-5	2			
Bis(α,α-dimethylbenzyl) peroxide (2020/1182)	80-43-3	201-279-3			1B	
1,3-Bis(2,3-epoxypropoxy)benzene (2020/1182)	101-90-6	202-987-5	1B	2		
Bis(2-ethylhexyl) phthalate DEHP	117-81-7	204-211-0	---	---	1B	1B
4-[[Bis-(4-fluorphenyl)methylsilyl]methyl]-4H-1,2,4-triazole; 1-[[bis-(4-fluorphenyl)methylsilyl]methyl]-1H-1,2,4-triazole, reaction mass of		403-250-2	2		1B	
4,7-Bis(mercaptomethyl)-3,6,9-trithia-1,11-undecandithiol, 4,8-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecandithiol and 5,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecandithiol, reaction mass of (790/2009)	170016-25-8	427-050-1				2
1,2-Bis(2-methoxyethoxy) ethane	112-49-2	203-977-3	---	---	1B	2 1B*
Bis(2-(2-methoxyethoxy)ethyl)ether; tetraethylenglycoldimethylether (2020/1182)	143-24-8	205-594-7			1B	1B
Bis(2-methoxyethyl)ether	111-96-6	203-924-4			1B	1B
Bis(2-methoxyethyl)phthalate	117-82-8	204-212-6			1B	2
Bis(pentabromphenyl)ether	1163-19-5	214-604-9	2*	---	---	---
Bis(tributyltin)oxide	56-35-9	200-268-0			2*	1B*
1,3-Bis(vinylsulphonylacetamido)propane	93629-90-4	428-350-3		2		
Bisphenol S; 4,4'-sulphonyl diphenol (2022/692)	80-09-1	201-250-5			1B	1B

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Lead compounds with the exception of those specified by name					1A	2
Lead massive: [particle diameter ≥ 1 mm]	# 7439-92-1	231-100-4			1A Lact.	1A
Lead powder: [particle diameter < 1 mm]	# 7439-92-1	231-100-4			1A Lact.	1A
Lead acetate, basic	1335-32-6	215-630-3	2		1A	2
Lead alkyls, Pb(C <sub>n</sub> H <sub>2n+1</sub> ) <sub>x</sub> (n = 1-5)					1A	2
Lead azide	13424-46-9	236-542-1			1A	2
Lead chromate (790/2009)	7758-97-6	231-846-0	1B		1A	2
Lead chromate molybdate sulphate red (790/2009)	12656-85-8	235-759-9	1B		1A	2
Lead diacetate	301-04-2	206-104-4			1A	2
Lead hexafluorosilicate	25808-74-6	247-278-1			1A	2
Lead hydrogen arsenate	7784-40-9	232-064-2	1A		1A	2
Lead(II) methane sulphonate	17570-76-2	401-750-5			1A	2
Lead sulphochromate yellow (790/2009)	1344-37-2	215-693-7	1B		1A	2
Lead tetraethyl	78-00-2	201-075-4			1A	2
Lead tetramethyl	75-74-1	200-897-0			1A	2
Lead 2,4,6-trinitroresorcinate	15245-44-0	239-290-0			1A	2
Boric acid Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4			1B	1B
2-Bromo-2-chloro-1,1,1-trifluoroethane	151-67-7	205-796-5			1B*	---
Brodifacoum (ISO); 4-hydroxy-3-(3-(4'-bromo-4-biphenyl)-1,2,3,4-tetrahydro-1-naphthyl)coumarin (2016/1179)	56073-10-0	259-980-5			1A	
Bromadiolon (ISO); 3-[3-(4'- brombiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H- chromen-2-one (2016/1179)	28772-56-7	249-205-9			1B	
Bromethane	74-96-4	200-825-8	1B* 2			
Bromethene	593-60-2	209-800-6	1B			
Bromomethane	74-83-9	200-813-2	---	2	---	---
1-Bromo-2-methylpropyl propionate (790/2009)	158894-67-8	422-900-6	2			
(R)-5-Bromo-3-(1-methyl-2-pyrrolidinylmethyl)-1H-indole	143322-57-0	422-390-5				2
Bromoxynil (ISO); 3,5-dibromo-4-hydroxybenzotrile	1689-84-5	216-882-7			2	

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Bromoxynil heptanoate	56634-95-8	260-300-4			2	
1-Bromopropane	106-94-5	203-445-0	---	---	1B	1B
2-Bromopropane	75-26-3	200-855-1				1A
1-Bromo-3,4,5-trifluorobenzene	138526-69-9	418-480-9	2			
Bupirimate (ISO); 5-butyl-2-ethyl amino-6-methyl pyrimidin-4-yl-dimethyl sulphamate (2016/1179)	41483-43-6	255-391-2	2			
1,3-Butadiene	106-99-0	203-450-8	1A	1B		
n-Butane, contains ≥ 0.1% butadiene	106-97-8	203-448-7	1A	1B		
ISO-Butane, contains ≥ 0.1% butadiene	75-28-5	200-857-2	1A	1B		
2-Butanone oxime (2020/1182)	96-29-7	202-496-6	1B			
1,4-Butane sultone	1633-83-6	216-647-9	2*			
2,4-Butane sultone (TRGS 905 No. 4)	1121-03-5	214-325-2	1B*			
Crotonaldehyde; 2-Butenal (E)-2-butenal; (E) crotonaldehyde	4170-30-3 123-73-9	224-030-0 204-647-1	---	2	---	---
1-Butoxy-2,3-epoxypropane	2426-08-6	219-376-4	2	1B* 2	---	---
1-tert-Butoxy-2,3-epoxypropane	7665-72-7	231-640-0	---	2*	---	---
4-tert-Butylbenzoic acid (618/2012)	98-73-7	202-696-3				1B
2-(4-tert-Butylbenzyl)propionaldehyde (2020/1182)	80-54-6	201-289-8			2	1B
4'-tert-Butyl-2',6'-dimethyl-3',5'-dinitroacetophenone, Musk Ketone (790/2009)	81-14-1	201-328-9	2	---	---	---
Tert-Butyl hydroperoxide (2016/1179)	75-91-2	200-915-7		2		
4-tert-Butyl phenol (2018/1480)	98-54-4	202-679-0				2
2-(4-tert-Butyl phenyl)ethanol	5406-86-0	410-020-5				2
Musk xylene; 5-tert-Butyl-2,4,6-trinitro-m-xylol	81-15-2	201-329-4	2	---	---	---
2-Butyryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one (790/2009)	94723-86-1	425-150-8				1B
5-(3-Butyryl-2,4,6-trimethyl phenyl)-2-[1-(ethoxyimino)propyl]-3-hydroxycyclohex-2-en-1-one	138164-12-2	414-790-3			2	2
Cadmium	7440-43-9	231-152-8	1B	2	2	2
Cadmium carbonate (2017/776)	513-78-0	208-168-9	1B	1B		
Cadmium chloride	10108-64-2	233-296-7	1B	1B	1B	1B



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Cadmium cyanide	542-83-6	208-829-1	1B* 2			
Cadmium fluoride	7790-79-6	232-222-0	1B	1B	1B	1B
Cadmium formiate	4464-23-7	224-729-0	1B* 2			
Cadmium hexafluorosilicate	17010-21-8	241-084-0	1B* 2			
Cadmium hydroxide; Cadmium dihydroxide (2017/776)	21041-95-2	244-168-5	1B	1B		
Cadmium iodide	7790-80-9	232-223-6	1B* 2			
Cadmium nitrate; Cadmium dinitrate (2017/776)	10325-94-7	233-710-6	1B	1B		
Cadmium oxide	1306-19-0	215-146-2	1B	2	2	2
Cadmium sulphate	10124-36-4	233-331-6	1B	1B	1B	1B
Cadmium sulphide	1306-23-6	215-147-8	1B	2	2	2
Cadmium compounds, except those specified by name (in the form of respirable dusts/aerosols).			1B*			
Calcium chromate	13765-19-0	237-366-8	1B			
Calcium salicylates (branched C10-14 and C18-30 alkylated), calcium phenates (branched C10-14 and C18-30 alkylated), sulphurised calcium phenates (branched C10-14 and C18-30 alkylated), reaction mass of (790/2009)		415-930-6				2
Campechlor (ISO); toxaphene; chlorinated camphene	8001-35-2	232-283-3	2			
Captafol (ISO); 1,2,3, 6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio) phthalimide	2425-06-1	219-363-3	1B			
Captan (ISO); 1,2,3, 6-tetrahydro-N-(trichloromethylthio)phthalimide (790/2009)	133-06-2	205-087-0	2			
Carbadox (INN); methyl-3-(chinoxaline-2-ylmethylene)carbazate-1,4-dioxide; 2-(methoxycarbonyl hydrazonomethyl) chinoxaline-1,4-dioxide	6804-07-5	229-879-0	1B			
Carbaryl (ISO); 1-naphthyl methylcarbamate (790/2009)	63-25-2	200-555-0	2			
Carbendazim (ISO); Methyl benzimidazol-2-ylcarbamate (2021/849)	10605-21-7	234-232-0		1B	1B	1B
Carbetamide (ISO); (R)-1-(ethylcarbamoyl)ethylcarbanilate; (2R)-1-(ethylamino)-1-oxopropan-2-ylphenylcarbamate (2017/776)	16118-49-3	240-286-6	2		1B	

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
[μ-[Carbonato(2-)-O:O']]dihydroxytrinickel see: Nickel carbonate (790/2009)	65405-96-1	265-748-4				
[Carbonato(2-)]tetrahydroxytrinickel see: Nickel carbonate (790/2009)	12607-70-4	235-715-9				
4,4'-Carbonimidoylbis(N,N-dimethylaniline)	492-80-8	207-762-5	1B* 2	2*	---	---
4,4'-Carbonimidoylbis(N,N-dimethylaniline), production of (see below, TRGS 906)						
4,4'-Carbonimidoylbis(N,N-dimethylaniline), salts of (except hydrochloride)			2			
4,4'-Carbonimidoyl bis(N,N-dimethylaniline)-hydrochloride	2465-27-2	219-567-2	1B* 2	2*	---	---
N-Carboxymethyliminobis(ethylene nitrilo)-tetraacetic acid (2022/692)	67-43-6	200-652-8			1B	
Quinolin-8-ol; 8-hydroxyquinoline (2017/776)	148-24-3	205-711-1			1B	
2-Chloroacetaldehyde	107-20-0	203-472-8	2	---	---	---
2-Chloroacetamide	79-07-2	201-174-2	---	---	---	2
Chloroalkanes, C10-13, Cl1-13 (790/2009)	85535-84-8	287-476-5	2			
cis-1-(3-Chlorallyl)-3,5,7-triaza-1-azoniaadamantan chloride (790/2009)	51229-78-8	426-020-3			2	
4-Chloraniline	106-47-8	203-401-0	1B			
4-Chlorobenzotrichloride	5216-25-1	226-009-1	1B	---	---	2 1B*
2-Chloro-1,3-butadiene	126-99-8	204-818-0	1B	---	---	---
Chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7- methanoindane	57-74-9	200-349-0	2			
Chlordecone (ISO); decachlorpentacyclo(5,2,1,02,6,03,9,05,8)decan-4-one	143-50-0	205-601-3	2			
5-Chloro-1,3-dihydro-2H-indol-2-one	17630-75-0	412-200-9				2
Chlordimeform (ISO); N2-(4-chloro-o-tolyl)-N1,N1- dimethylformamidine	6164-98-3	228-200-5	2			
Chlorodimeform hydrochloride	19750-95-9	243-269-1	2			
Chlorine-N,N-dimethylformiminium chloride (790/2009)	3724-43-4	425-970-6			1B	
1-Chloro-2,3-epoxypropane	106-89-8 51594-55-9	203-439-8 424-280-2	1B			
Chlorethane	75-00-3	200-830-5	2			
Chloro-1-ethylcyclohexyl carbonate (790/2009)	99464-83-2	444-950-8		2		

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
(2-Chloroethyl)(3-hydroxypropyl) ammonium chloride (790/2009)	40722-80-3	429-740-6	1B	1B		
6-(2-Chloroethyl)-6-(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane	37894-46-5	253-704-7			1B	
3-Chloro-4-(3-fluorobenzyloxy)aniline	202197-26-0	445-590-4		2		
Chlorofluoromethane	593-70-4	209-803-2	1B*			
2-Chloro-6-fluoro-phenol (790/2009)	2040-90-6	433-890-8		1B		2
(3-Chloro-2-hydroxypropyl) trimethyl ammonium chloride (790/2009)	3327-22-8	222-048-3	2	---	---	---
Chloromethane	74-87-3	200-817-4	2			
Chloromethyl methyl ether	107-30-2	203-480-1	1A			
(5-Chloro-2-methoxy-4-methyl-3-pyridyl)(4,5,6-trimethoxy-o-tolyl) methanone; pyriofenone (2021/849)	688046-61-9	692-456-8	2			
3-Chloro-2-methyl propene	563-47-3	209-251-2	2*			
1-Chloro-2-nitrobenzene	88-73-3	201-854-9	2*	---	---	2*
1-Chloro-4-nitrobenzene	100-00-5	202-809-6	2	2	---	---
Chlorphacinone (ISO); 2-[(4-chlorophenyl)(phenyl)acetyl]-1H-inden-1,3(2H)-dione (2016/1179)	3691-35-8	223-003-0			1B	
1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol (2015/1221)	107534-96-3	403-640-2			2	
3-(4-Chlorophenyl)-1,1-dimethyluronium trichloroacetate	140-41-0	620-358-7	2			
(2RS, 3SR)-3-(2-Chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane, see: Epoxiconazole (ISO)						
4-[(3-Chlorophenyl)(1H-imidazol-1-yl)methyl]-1,2-benzene diamin dihydrochloride (790/2009)	159939-85-2	425-030-5				2
((3-Chlorophenyl)-(4-methoxy-3-nitrophenyl) methanone	66938-41-8	423-290-4		2		
3-Chloropropene	107-05-1	203-457-6	2	2		
Chlorpropham (ISO); isopropyl 3-chlorocarbanilate (790/2009)	101-21-3	202-925-7	2			
Chlorothalonil (ISO); tetrachloroisophthalonitrile (790/2009)	1897-45-6	217-588-1	2			
4-Chloro-o-toluidine	95-69-2	202-441-6	1A* 1B	2		
4-Chloro-o-toluidine, hydrochloride	3165-93-3	221-627-8	1A* 1B	2		
5-Chloro-o-toluidine	95-79-4	202-452-6	2*			
α-Chlorotoluene mixture			1A*			

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α-Chlorotoluene	100-44-7	202-853-6	1B	2*	2*	---
Chlortoluron	15545-48-9	239-592-2	2		2	
Clothianidin (ISO); (E)-1-(2-Chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine	# 210880-92-5	433-460-1				2
Chlzolinate (ISO); ethyl-(RS)-3-(3,5-dichlorophenyl)-5-methyl-2,4-dioxo-oxazolidine-5-carboxylate	84332-86-5	282-714-4	2			
Chromium(III) chromate	24613-89-6	246-356-2	1B			
Chromium oxychloride	14977-61-8	239-056-8	1B H350 i	1B		
Chrome trioxide	1333-82-0	215-607-8	1A	1B		2
Chromium (VI) compounds, with the exception of barium chromate and those specified by name			1B H350 i			
Chrysene	218-01-9	205-923-4	1B	2		
Chrysoidine; 4-(phenylazo)benzene-1,3-diamine (790/2009)	495-54-5	207-803-7	---	2		
Chrysoidine monohydrochloride; 4-phenylazo-phenylene-1,3-C	532-82-1	208-545-8				
Chrysoidine monoacetate; 4-(phenylazo)benzene-1,3-diamine monoacetate	75660-25-2	278-290-5				
chrysoidine acetate; 4-(phenylazo)benzene-1,3-diamine acetate	79234-33-6	279-116-0				
chrysoidine-p-dodecylbenzenesulphonate; dodecylbenzenesulphonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1)	63681-54-9	264-409-8		2		
chrysoidine dihydrochloride; 4-(phenylazo)benzene-1,3-diamine dihydrochloride	83968-67-6	281-549-5				
chrysoidine sulphate; bis[4-(phenylazo)benzene-1,3-diamine] sulphate (790/2009)	84196-22-5	282-432-1				
Chrysoidine C10-14-alkyl derivatives; benzenesulphonic acid, mono-C10-14-alkyl derivatives, derivatives with 4-compounds with 4-(phenylazo)-1,3-benzenediamine	85407-90-5	286-946-7				
chrysoidine, compound with dibutylphthalenesulphonic acid; dibutylphthalenesulphonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1) (790/2009)	94247-67-3	304-236-8		2		
C.I. Basic Red 9; 4,4'-(4-iminocyclohexa-2,5-dienylidene)methylene)dianiline hydrochloride	569-61-9	209-321-2	1B	---	---	---
C.I. Basic Violet 3; 4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; Crystal Violet	548-62-9	208-953-6	2	---	---	---
C.I. Basic Violet 3 with ≥ 0.1% Michler's ketone (EC No 202-027-5)	548-62-9	208-953-6	1B			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
C.I. Direct Blue 218	73070-37-8	277-272-4	2*	---	---	---
Cinidonethyl (ISO); ethyl-(Z)-2-chloro-3-[2-chloro-5-(cyclohex-1-ene-1,2-dicarboximido)phenyl]acrylate (790/2009)	142891-20-1	604-318-6	2			
Chlorophene; 2-benzyl-4-chlorophenol (2017/776)	120-32-1	204-385-8	2			2
Cobalt, metal (2020/217)	7440-48-4	231-158-0	1B	2		1B
Cobalt (II) acetate (790/2009)	71-48-7 6147-53-1	200-755-8	1B H350 i	2	---	1B
Cobalt carbonate (790/2009)	513-79-1	208-169-4	1B H350 i	2	---	1B
Cobalt dichloride (790/2009)	7646-79-9	231-589-4	1B H350 i	2	---	1B
Cobalt lithium nickel oxide (790/2009)		442-750-5	1A H350 i			
Cobalt-nickel-gray-periclase; C.I. black pigment 25; C.I. 77332 cobalt nickel dioxide cobalt nickel oxide (790/2009)	68186-89-0 58591-45-0 12737-30-3	269-051-6 261-346-8 620-395-9	1A H350 i			
Cobalt nitrate (790/2009)	10141-05-6	233-402-1	1B H350 i	2	---	1B
Cobalt oxide (in the form of respirable dusts/aerosols)	1307-96-6	215-154-6	2*	---	---	---
Cobalt sulphate (790/2009)	10124-43-3	233-334-2	1B H350 i	2	---	1B
Cobalt sulphide (in the form of respirable dusts/aerosols)	1317-42-6	215-273-3	2*	---	---	---
Cobalt compounds (in the form of respirable dusts/aerosols), except those specified by name, as well as cobalt-containing spinels and organic cobalt siccatives.			2*	---	---	---
Colchicine; 7-acetamido-1,2,3,10-tetramethoxy-5,6,7,9-tetrahydrobenzo[a]heptalen-9-one (790/2009)	64-86-8	200-598-5		1B		
Coumatetralyl (ISO); 4-hydroxy-3-(1,2,3,4-tetrahydro-1-naphthyl)coumarin (2016/1179)	5836-29-3	227-424-0			1B	
Cristobalite (see below, TRGS 906)	14464-46-1	238-455-4				
Cumene (2022/692)	98-82-8	202-704-5	1B			
Cyanamide; carbamionitrile (2017/776)	420-04-2	206-992-3	2		2	2
4-cyan-2,6-diiodophenyl octanoate	3861-47-0	223-375-4			2	

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Cymoxanil (ISO); 2-Cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide (2E)-2-Cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide	# 57966-95-7	261-043-0			2	2
	166900-80-7	261-043-0				
Cycloheximide	66-81-9	200-636-0		2	1B	
Cyclohexylamine (790/2009)	108-91-8	203-629-0				2
N-cyclohexyl-N-methoxy-2,5-dimethyl-3-furamide	60568-05-0	262-302-0	2			
trans-4-Cyclohexyl-L-proline monohydrochloride	90657-55-9	419-160-1				2
1-Cyclopropyl-6,7-difluoro-1,4-dihydro-4-oxoquinoline-3-carboxylic acid	93107-30-3	413-760-7				2
Cycloxydim (ISO); 2-(ethoxybutanimidoyl)-3-hydroxy-5-(tetrahydro-2H-thiopyran-3-yl)cyclohex-2-en-1-one (605/2014)	101205-02-1	405-230-9			2	
Cyfluthrin (ISO); α-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (2022/692)	68359-37-5	269-855-7			Lact.	
beta-Cyfluthrin (ISO); reaction mass of rel-(R)-cyan(4-fluoro-3-phenoxyphenyl)-methyl-(1S,3S)-3-(2,2-dichlorethenyl)-2,2-dimethylcyclopropane-1-carboxylate and rel-(R)-cyan(4-fluoro-3-phenoxyphenyl)-methyl-(1S,3R)-3-(2,2-dichlorethenyl)-2,2-dimethylcyclopropane-1-carboxylate (2022/692)	1820573-27-0	-			Lact.	
Cyflumetofen (ISO); 2-methoxyethyl (RS)-2-(4-tert-butylphenyl)-2-cyano-3-oxo-3-(α,α,α-trifluoro-o-tolyl)propionate (2020/217)	400882-07-7	642-974-5	2			
Cyproconazole (ISO); (2RS,3RS;2RS,3SR)-2-(4-chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butane-2-ol (2017/776)	94361-06-5	619-020-1			1B	
Daminozide (ISO); 4-(2,2-dimethylhydrazino)-4-oxobutanoic acid; N-dimethylaminosuccinamic acid (2022/692)	1596-84-5	216-485-9	2			
Desmedipham (ISO); ethyl-3-phenylcarbamoyloxyphenylcarbamate (2021/849)	13684-56-5	237-198-5			2	
DDT (ISO); Clofenotane (INN); Dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)-ethane; dichlorodiphenyltrichlorethane	50-29-3	200-024-3	2			
N,N'-Diacetylbenzidine (790/2009)	613-35-4	210-338-2	1B	2		
Diallate (ISO); S-(2,3-dichloroallyl)-N,N-diisopropylthiocarbamate	2303-16-4	218-961-1	2			
2, 4-Diaminoanisole; 4-Methoxy-m-phenylenediamine 2, 4-Diaminoanisole sulphate	615-05-4	210-406-1	1B	2		
	39156-41-7	254-323-9				
3,3'-Diaminobenzidine (790/2009)	91-95-2	202-110-6	1B	2		

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3,3'-Diaminobenzidine, salts of			2*			
4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	1B	2		
Diammonium-1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalene sulphonate (790/2009)	150202-11-2	422-670-7				2
Diammonium nickel hexacyanoferrate (790/2009)	74195-78-1		1A H350 i			
Diantimony trioxide	1309-64-4	215-175-0	2			
Diarsenic pentaoxide	1303-28-2	215-116-9	1A			
Diarsenic trioxide	1327-53-3	215-481-4	1A			
Diazomethane	334-88-3	206-382-7	1B			
Dibenz[a,h]anthracene (790/2009)	53-70-3	200-181-8	1B			
Dibenzo[b,def]chrysene; dibenzo[a,h]pyrene (2020/217)	189-64-0	205-878-0	1B	2		
Dibenzo[def,p]chrysene; dibenzo[a,l]pyrene (2020/1182)	191-30-0	205-886-4	1B	2		
Dibor trioxide (790/2009)	1303-86-2	215-125-8			1B	1B
1,2-Dibromo-3-chloropropane	96-12-8	202-479-3	1B	1B	---	1A
2,6-Dibromo-4-cyanophenyl octanoate	1689-99-2	216-885-3			2	
1,2-Dibromomethane	106-93-4	203-444-5	1B			
2,2-Dibromo-2-nitroethanol	69094-18-4	412-380-9	2			
2,3-Dibromopropan-1-ol	96-13-9	202-480-9	1B	---	---	2
Dibutylbis(pentane-2,4-dionato-O,O')tin (2020/217)	22673-19-4	245-152-0			1B	1B
Di-tert-butyl peroxide (618/2012)	110-05-4	203-733-6		2		
Dibutyl phthalate; DBP	84-74-2	201-557-4	---	---	1B	1B* 2
Dibutyltin bis(2-ethylhexanoate) (2022/692)	2781-10-4	220-481-2		2	1B	1B
Dibutyltin di(acetate) (2022/692)	1067-33-0	213-928-8		2	1B	1B
Dibutyltin dichloride (790/2009)	683-18-1	211-670-0		2	1B	1B
Dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane (2017/776)	77-58-7	201-039-8		2	1B	1B
Dibutyltin hydrogen borate (790/2009)	75113-37-0	401-040-5		2	1B	1B
Dibutyltin maleate	#	78-04-6		2	1B	1B
Dibutyltin oxide	#	818-08-6		2	1B	1B

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Dichloroacetylene	7572-29-4	620-404-6	1B* 2			
3,3'-Dichlorobenzidine	91-94-1	202-109-0	1B			
3,3'-Dichlorobenzidine, salts of			1B			
1,4-Dichlorobenzene	106-46-7	203-400-5	2	---		
2,2'-[(3,3'-Dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-oxo-butanamide; 2-[[[3,3'-dichloro-4'-[[1[[[(2,4-dimethylphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]azo]-N-(2-methylphenyl)-3-oxo-butanamide; 2-[[[3,3'-dichloro-4'-[[1[[[(2,4-dimethylphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]azo]-N-(2-carboxylphenyl)-3-oxo-butanamide, reaction mass of (790/2009)		434-330-5	2			
1,4-Dichlorobut-2-ene	764-41-0	212-121-8	1B			
2,2'-Dichlorodiethyl ether (790/2009)	111-44-4	203-870-1	2			
2,2'-Dichlorodiethyl sulphide (TRGS 905 No. 4)	505-60-2	684-527-7	1A*			
3,5-Dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4	2			
Dichlorodioctyl stannane (2020/1182)	3542-36-7	222-583-2			1B	
1,2-Dichloroethane	107-06-2	203-458-1	1B			
1,1-Dichloroethane	75-35-4	200-864-0	2			
Dichloromethane	75-09-2	200-838-9	2			
1,2-Dichloromethoxyethane	41683-62-9	255-500-3	---	2*	---	---
2,2'-Dichloro-4,4'-methylene dianiline	101-14-4	202-918-9	1B			
2,2'-Dichloro-4,4'-methylene dianiline, salts of			1B			
3-(3,5-Dichlorophenyl)-2,4-dioxo-N-isopropyl imidazolidine-1-carboxamide	36734-19-7	253-178-9	2			
1,2-Dichloropropane (2016/1179)	78-87-5	201-152-2	1B	---	---	---
1,3-Dichloro-2-propanol	96-23-1	202-491-9	1B			
1,3-Dichloropropene (cis- and trans-)	542-75-6	208-826-5	1B*	2*	---	---
2,3-Dichloropropene	78-88-6	201-153-8		2		
α,α-Dichlorotoluene	98-87-3	202-709-2	2			
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2	206-190-3	2*	---	---	---
Dicyclohexyl nitrosamine	947-92-2		---	2*	---	---
Dicyclohexyl phthalate (2016/1179)	84-61-7	201-545-9			1B	
Dieldrin (ISO)	60-57-1	200-484-5	2			



Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
1,2,3,4-Diepoxybutane	1464-53-5	215-979-1	1B	1B	---	2*
Diesel engine emissions (see below, TRGS 906)			1B*			
Diester of 4,4'-methylene bis[2-(2-hydroxy-5-methyl benzyl)-3,6-dimethyl phenol] and 6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulphonic acid (1:2) and triester of 4,4'-methylene bis[2-(2-hydroxy-5-methylbenzyl)-3,6-dimethyl phenol] and 6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulphonic acid (1:3), reaction mass of (790/2009)		427-140-9	2			
Diethanolamine perfluorooctane sulphonate, see: Perfluorooctane sulphonic acid						
1,2-diethoxyethane (790/2009)	629-14-1	211-076-1			1B	2
Diethylcarbamic acid chloride	88-10-8	201-798-5	2			
Diethylene glycol monomethyl ether; 2-(2-methoxyethoxy)-ethanol (2022/692)	111-77-3	203-906-6			1B	
Diethyl sulphate	64-67-5	200-589-6	1B	1B		
Difenacoum (ISO); 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin (2016/1179)	56073-07-5	259-978-4			1B	
Difenoconazole (ISO); 1-({2-[2-Chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl)methyl}-1H-1,2,4-triazole; 3-Chloro-4-[(2RS,4RS;2RS,4SR)-4-methyl-2-(1H-1,2,4-triazol-1-yl)methyl]-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether	# 119446-68-3		2			
Difethialone (ISO); 3-[3-(4'-brombiphenyl-4-yl)-1,2,3,4-tetrahydronaphthalene-1-yl]-4-hydroxy-2H-1-benzothiopyrane-2-on (2016/1179)	104653-34-1	600-594-7			1B	
1,1-Difluorethene	75-38-7	200-867-7	2*			
3-(Difluormethyl)-1-methyl-N-(3',4',5'-trifluorbiphenyl-2-yl)pyrazol-4-carboxamide; Fluxapyroxad (2020/1182)	907204-31-3	620-041-3			Lact.	
Diglycidyl ether	2238-07-5	218-802-6	2*			
N,N'-Dihexadecyl-N,N'-bis(2-hydroxy ethyl) propandiamide	149591-38-8	422-560-9				2
Dihexyl phthalate (944/2013)	84-75-3	201-559-5			1B	1B
N-[6,9-Dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purine-2-yl]acetamide (790/2009)	84245-12-5	424-550-1	1B	1B	1B	1B
(S)-2,3-Dihydro-1H-indole-2-carboxylic acid	79815-20-6	410-860-2				2
1,2-Dihydroxybenzene (2018/1480)	120-80-9	204-427-5	1B	2		
1,4-Dihydroxybenzene (790/2009)	123-31-9	204-617-8	2	2	---	---
4-[4-(1,3-Dihydroxyprop-2-yl)phenylamino]-1,8-dihydroxy-5-nitroanthraquinone	114565-66-1	406-057-1	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Diisobutyl phthalate (2016/1179)	84-69-5	201-553-2			1B	2
2,4-Diisocyanate toluene	584-84-9	209-544-5	2			
2,6-Diisocyanate toluene	91-08-7	202-039-0	2			
Diisohexyl phthalate (2020/217)	71850-09-4	276-090-2			1B	1B
Diisooctyl phthalate (2020/1182)	27554-26-3	248-523-5			1B	1B
Diisopropanol amine with formaldehyde (1:4) (790/2009), reaction products of	220444-73-5	432-440-8	2			
Dimethomorph (ISO); (E,Z)-4-(3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl)morpholine (2021/849)	110488-70-5	404-200-2				1B
3,3'-Dimethoxybenzidine	119-90-4	204-355-4	1B			
3,3'-Dimethoxybenzidine, salts of			1B			
1,2-Dimethoxyethane	110-71-4	203-794-9	---	---	1B	1B
N,N-Dimethyl acetamide (2016/1179)	127-19-5	204-826-4			1B	2*
(E)-3-[1-[4-[2-(Dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol (790/2009)	82413-20-5	428-010-4	2			1B
N,N-(Dimethylamino)thioacetamide-hydrochloride (790/2009)	27366-72-9	435-470-1			1B	
N,N-Dimethylaniline	121-69-7	204-493-5	2	---	---	---
N,N-Dimethylanilinium tetrakis (pentafluorophenyl) borate	118612-00-3	422-050-6	2			
3,3'-Dimethyl benzidine	119-93-7	204-358-0	1B			
3,3'-Dimethyl benzidine, salts of			1B			
3,3'-Dimethylbiphenyl-4,4'-diyl diisocyanate	# 91-97-4	202-112-7	2			
Dimethyl carbamoyl chloride	79-44-7	201-208-6	1B			
N,N-Dimethyl formamide	68-12-2	200-679-5			1B	
1,2-Dimethyl hydrazine	540-73-8		1B			
N,N-Dimethyl hydrazine	57-14-7	200-316-0	1B			
Dimethyl hydrogen phosphite	868-85-9	212-783-8	2*			
Dimethyl(2-(hydroxymethylcarbamoyl) ethyl) phosphonate, diethyl(2-(hydroxymethylcarbamoyl) ethyl) phosphonate and methyl ethyl(2-(hydroxymethyl carbamoyl) ethyl) phosphonate, reaction mass of (790/2009)		435-960-3	1B	1B		
3,7-Dimethylocta-2,6-diennitrile (2016/1179)	5146-66-7	225-918-0			1B	
2,2-Dimethylpropan-1-ol, tribromo derivative; 3-bromo-2,2-bis(bromomethyl)-propan-1-ol (2022/692)	36483-57-5 1522-92-5	253-057-0 622-370-8	1B	2		
Dimethyl propylphosphonate	# 18755-43-6	242-555-3			1B	1B

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Dimethylsulphamoyl chloride	13360-57-1	236-412-4	1B			
Dimethyl sulphate	77-78-1	201-058-1	1B	2		
N,N-Dimethyl-p-toluidine	# 99-97-8	202-805-4	1B			
Dimethyl tin dichloride (605/2014)	753-73-1	212-039-2			2	
Dimoxystrobin (ISO); (2E)-2-[2-[(2,5-dimethylphenoxy)-methyl]-phenyl]-2-(methoxyimino)-N-methyl acetamide; (E)-2-(methoxyimino)-N-methyl-2-[α-(2,5-xylyloxy)-o-tolyl]-acetamide	149961-52-4	604-712-8	2		2	
Disodium-4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate	1937-37-7	217-710-3	1B		2	
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)	573-58-0	209-358-4	1B		2	
Disodium-[5-[[4'-((2,6-dihydroxy-3-((2-hydroxy-5-sulphophenyl)azo)phenyl)azo)(1,1'-biphenyl)-4-yl]azo]salicylato(4-)]cuprate(2-)	16071-86-6	240-221-1	1B			
Disodium-4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-hydroxy-1-(4-sulphonatophenyl)pyrazol-4-yl)penta-2,4-dienyliden)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulphonate and Trisodium-4-(3-ethoxycarbonyl-4-(5-(3-ethoxycarbonyl-5-oxido-1-(4-sulphonatophenyl)pyrazol-4-yl)penta-2,4-dienyliden)-4,5-dihydro-5-oxopyrazol-1-yl)benzenesulphonate, reaction mass of		402-660-9			1B	
Disodium octaborate anhydrous Disodium octaborate tetrahydrate (2016/1179)	12008-41-2 12280-03-4	234-541-0 234-541-0			1B	1B
Dinickel diphosphate, see: Nickel hydrogen phosphate						
Dinickel hexacyanoferrate (790/2009)	14874-78-3	238-946-3	1A H350 i			
Dinickel trioxide (790/2009)	1314-06-3	215-217-8	1A H350 i			
Dinitronaphthalenes, all isomers	27478-34-8	248-484-4	2*			
2,3-Dinitrotoluene	602-01-7	210-013-5	1B	2		2
2,4-Dinitrotoluene (790/2009)	121-14-2	204-450-0	1B	2		2
2,5-Dinitrotoluene	619-15-8	210-581-4	1B	2		2
2,6-Dinitrotoluene	606-20-2	210-106-0	1B	2		2
3,4-Dinitrotoluene	610-39-9	210-222-1	1B	2		2
3,5-Dinitrotoluene	618-85-9	210-566-2	1B	2		2
Dinitrotoluenes, (technical mixtures of isomers) (790/2009)	25321-14-6	246-836-1	1B	2	---	2

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Dinocap (ISO); (RS)-2,6-dinitro-4-octyl phenyl crotonate and (RS)-2,4-dinitro-6-octyl phenyl crotonate, where "octyl" is a reaction mass of 1-methyl heptyl, 1-ethyl hexyl and 1-propyl pentyl groups. (790/2009)	39300-45-3	254-408-0			1B	
Dinoseb (ISO); 6-sec-butyl-2,4-dinitrophenol	88-85-7	201-861-7			1B	2
Dinoseb, salts and esters, with the exception of those specified by name					1B	2
Dinoterb (ISO); 2-tert-butyl-4,6-dinitrophenol	1420-07-1	215-813-8			1B	
Dinoterb, salts and esters of					1B	
Diocetyl dilaurate Diocetyl, bis(coco-acyloxy)-stannan derivatives (2020/1182)	3648-18-8 91648-39-4	222-883-3 293-901-5			1B	
1,4-Dioxane (2021/849)	123-91-1	204-661-8	1B			
Diphenylguanidine	102-06-7	203-002-1				2
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	# 75980-60-8	278-355-8			2	1B
Diphosphoric acid, nickel(II) salt, see: Nickel hydrogen phosphate						
Diuron (ISO); 3-(3,4-dichlorophenyl)-1,1-dimethylurea (790/2009)	# 330-54-1	206-354-4	1B			
6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol; [DBMK] (2021/849)	119-47-1	204-327-1				1B
DNOC (ISO); 4,6-Dinitro-o-cresol	534-52-1	208-601-1		2		
Dodecachlorpentacyclo[5.2.1.0 <sup>2,6</sup> .0 <sup>3,9</sup> .0 <sup>5,8</sup> ]decan	2385-85-5	219-196-6	2		2 Lact.	2
Dodemorph (ISO) (2015/1221); 4-cyclododecyl-2,6-dimethylmorpholine	1593-77-7	216-474-9			2	
Dodemorph acetate; 4-cyclododecyl-2,6-dimethylmorpholine-4-iumacetate (2015/1221)	31717-87-0	250-778-2			2	
Epoxiconazole (ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane (944/2013)	133855-98-8	406-850-2	2		1B	2
1,2-Epoxybutane (2015/1221)	106-88-7	203-438-2	1B* 2			
7-oxa-3-oxiranyl bicyclo [4.1.0]heptane; 1,2-Epoxy-4-epoxy ethyl cyclohexane; 4-vinyl cyclohexene diepoxide (2021/849)	106-87-6	203-437-7	1B	2		1B
1,2-Epoxy-3-phenoxypropane	122-60-1	204-557-2	1B	2		
2,3-Epoxy-1-propanol R-2,3-Epoxy-1-propanol	556-52-5 57044-25-4	209-128-3 404-660-4	1B	2	---	1B

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
1-(2,3-Epoxypropoxy)-2,2-bis((2,3-epoxypropoxy)methyl)butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxymethyl butane, reaction mass of	#		2			1B
2,3-Epoxypropyl methacrylate; glycidyl methacrylate (2017/776)	106-91-2	203-441-9	1B	2		1B
[(p-tolyloxy)methyl]oxirane; [2,3-Epoxypropyl-p-tolyloxy] ether	2186-24-5	218-574-8				
[(m-tolyloxy)methyl]oxirane	2186-25-6	218-575-3	2*	2		
2,3-epoxypropyl-o-tolyl ether	2210-79-9	218-645-3				
[(tolyloxy)methyl]oxirane; cresyl glycidyl ether	26447-14-3	247-711-4				
Erionite	12510-42-8	620-440-2	1A			
Estrogenes (steroid hormones)			2*	---	2*	1A*
Estrogenes, weak (steroid hormones)			---	---	2*	2*
3-(1,2-Ethandiylacetale)-estra-5(10),9(11)-dien-3,17-dion, cyclical (790/2009)	5571-36-8	427-230-8				1B
Ethanol, 2,2'-iminobis-, N-(branched and linear C13-15 alkyl) derivatives (2020/217)	97925-95-6	308-208-6			1B	
Ethene; Ethylene	74-85-1	200-815-3	---	2*	---	---
O,O'-(Ethenyl methyl silylene)di[(4-methyl pentane-2-one)oxime]	156145-66-3	421-870-1				2
Ethidium bromide; 3,8-diamino-1-ethyl-6-phenylphenanthridinium bromide (790/2009)	1239-45-8	214-984-6		2		
4-Ethoxy aniline	156-43-4	205-855-5		2		
4'-Ethoxy-2-benzimidazole anilide	120187-29-3	407-600-5		2		
2-Ethoxyethanol	110-80-5	203-804-1			1B	1B
2-Ethoxyethyl acetate (790/2009)	111-15-9	203-839-2			1B	1B
((4-Ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane (790/2009)	105024-66-6	405-020-7				1B
5-Ethoxy-3-trichloromethyl-1,2,4-thiadiazole (2015/1221)	2593-15-9	219-991-8	2			
Ethyl-1-(2,4-dichlorophenyl)-5-(trichloromethyl)-1H-1,2,4-triazole-3-carboxylate (790/2009)	103112-35-2	401-290-5	1B			
Ethyleneimine; Aziridine	151-56-4	205-793-9	1B	1B		
Ethylene oxide; Oxirane (2020/217)	75-21-8	200-849-9	1B	1B	2	1B
Ethylenethiourea; Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	2*	---	1B	
2-Ethylhexane-1,3-diol	94-96-2	202-377-9			---	

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
2-Ethylhexanoic acid and its salts, unless listed separately (2022/692)	-	-			1B	
2-Ethylhexyl-[[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]thio]acetate	80387-97-9	279-452-8			1B	
2-Ethylhexyl-10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (605/2014)	57583-35-4	260-829-0			2	
2-Ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (2020/1182)	15571-58-1	239-622-4			1B	
2-Ethylhexyl-10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (944/2013)	57583-34-3	260-828-5			2	
2-Ethylhexyl-2-ethylhexanoate (790/2009)	7425-14-1	231-057-1			2	
(RS)-1-[1-Ethyl-4-[4-mesyloxy-3-(2-methoxyethoxy)-o-toluoyl]pyrazole-5-yloxy]ethylmethylcarbonate; tolpyralate (2021/849)	1101132-67-5	701-225-3	2		2	2
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7				1B
1-Ethyl-1-methylmorpholinium bromide	65756-41-4	418-210-1		2		
4-Ethyl-4-methyl pyrrolidinium bromide	69227-51-6	418-200-5		2		
2-Ethylphenylhydrazine hydrochloride (790/2009)	19398-06-2	421-460-2	2			
N-Ethyl-2-pyrrolidone; 1-Ethylpyrrolidin-2-one (944/2013)	2687-91-4	220-250-6			1B	
Fibrous dusts, inorganic (classification depends on fulfilment of certain criteria, see TRGS 905 section 2.3) asbestos, erionite, mineral wool and ceramic mineral fibres see there				1B* or 2*		
Fenarimol (ISO); 2,4'-dichloro-α-(pyrimidin-5-yl)benzhydryl alcohol	60168-88-9	262-095-7			2 Lact.	2
Fenoxycarb (ISO); ethyl [2-(4-phenoxyphenoxy)ethyl]carbamate (605/2014)	72490-01-8	276-696-7	2			
Fenoxycarb (ISO); ethyl [2-(4-phenoxyphenoxy)ethyl] carbamate	67564-91-4	266-719-9			2	
Fenthion (ISO); O, O-dimethyl-O-(4-methylthion-m-tolyl)-phosphorothioate (790/2009)	55-38-9	200-231-9		2		
Fentin acetate (ISO); triphenyltin acetate (790/2009)	900-95-8	212-984-0	2		2	
Fentin hydroxide (ISO); triphenyltin hydroxide (790/2009)	76-87-9	200-990-6	2		2	
Flocoumafén (ISO); reaction mass of: cis-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl) coumarin and trans-4-hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl) coumarin (2016/1179)	90035-08-8	421-960-0			1B	

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Fluazifop-butyl (ISO); butyl (RS)-2-(4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy) propionate	69806-50-4	274-125-6			1B	
Fluazifop-butyl (ISO); butyl (RS)-2-(4-[5-(trifluoromethyl)-2-pyridyloxy]phenoxy) propionate	79241-46-6	616-669-2			2	
Fluazinam (ISO); 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5- (trifluoromethyl) pyridine-2-amine (605/2014)	79622-59-6	616-712-5			2	
Flumioxazin (ISO); N-(7-fluoro-3,4-dihydro-3-oxo-4-prop-2-ynyl-2H-1,4- benzoxazin-6-yl)cyclohex-1-ene-1,2-dicarboximide (2021/849)	103361-09-7	600-425-7			2	
Fluopicolide (ISO); 2,6-dichloro-N-[3-chloro-5-(trifluoromethyl)- 2-pyridylmethyl]-benzamide (2022/692)	239110-15-7	607-285-6			2	
5-Fluoro-1,3-dimethyl-N-[2-(4-methylpentane-2-yl)phenyl]- 1H-pyrazol-4-carboxamide; 2'-[(RS)-1,3-dimethylbutyl]-5- fluoro-1,3-dimethylpyrazole-4-carboxanilide; Penflufen (2020/1182)	494793-67-8	619-823-7	2			
1-(4-Fluoro-5-hydroxymethyl-tetrahydrofuran-2-yl)-1H- pyrimidine-2,4-dione	41107-56-6	415-360-8		2		
Flurochloridon (ISO); 3-chloro-4-(chloromethyl)-1-[3- (trifluoromethyl)phenyl]pyrrolidine-2-one (2020/1182)	61213-25-0	262-661-3			1B	1B
Flusilazole (ISO); bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazole-1- ylmethyl)silane	85509-19-9	617-717-5	2		1B	
Foramsulfuron (ISO); 2-[[[(4,6-Dimethoxypyrimidin-2-yl)carbamoyl]ulfamoyl]-4- formamido-N,N-dimethylbenzamide; 1-(4,6-Dimethoxypyrimidin-2-yl)-3-(2-dimethylcarbamoyl-5- formamidophenylsulfonyl)urea	# 173159-57-4		2			
Forchlorfenuron (ISO); 1-(2-chloro-4-pyridyl)-3-phenylurea (790/2009)	68157-60-8	614-346-0	2			
Formaldehyde (605/2014)	50-00-0	200-001-8	1B	2		
Formamide	75-12-7	200-842-0			1B	
Fuberidazole (ISO); 2-(2-furyl)-1H-benzimidazole (618/2012)	3878-19-1	223-404-0	2			
2-Furaldehyde; Furfural; 2-Furylmethanal (790/2009)	98-01-1	202-627-7	2	---	---	---
Furan	110-00-9	203-727-3	1B	2	---	---
Furfuryl alcohol (790/2009)	98-00-0	202-626-1	2			
Gallium arsenide (2015/1221)	1303-00-0	215-114-8	1B			1B
Progestogens (steroid hormones)			2*	---	1B*	1A*

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Progestogens, weak (steroid hormones)			---	---	2*	2*
E-glass microfibres in a characteristic composition; [non-directional calcium aluminium silicate fibres having the following characteristic composition (expressed as % by mass): SiO <sub>2</sub> 50.0-56.0%, Al <sub>2</sub> O <sub>3</sub> 13.0-16.0%, B <sub>2</sub> O <sub>3</sub> 5.8-10.0%, Na <sub>2</sub> O < 0.6%, K <sub>2</sub> O < 0.4%, CaO 15.0-24.0%, MgO < 5.5%, Fe <sub>2</sub> O <sub>3</sub> < 0.5%, F <sub>2</sub> < 1.0%. Production method: typically produced using a jet-blow or centrifugal method. (Other individual elements may be present in small quantities. The list of methods does not exclude innovations)]. (2016/1179)			1B H350 i			
Glass microfibres in a characteristic composition; [non-directional calcium-aluminium silicate fibres having the following characteristic composition (expressed as % by mass): SiO <sub>2</sub> 55.0-60.0%, Al <sub>2</sub> O <sub>3</sub> 4.0-7.0%, B <sub>2</sub> O <sub>3</sub> 8.0-11.0%, ZrO <sub>2</sub> 0.0-4.0%, Na <sub>2</sub> O 9.5-13.5%, K <sub>2</sub> O 0.0-4.0%, CaO 1.0-5.0%, MgO 0.0- 2.0%, Fe <sub>2</sub> O <sub>3</sub> < 0.2%, ZnO 2.0-5.0%, BaO 3.0-6.0%, F <sub>2</sub> < 1.0%. Production method: typically produced using a jet-blow or centrifugal method. (Other individual elements may be present in small quantities. The list of methods does not exclude innovations)]. (2016/1179)			2			
Glucocorticoids (steroid hormones)			---	---	1A*	2*
Glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl) butyrate (790/2009)	77182-82-2	278-636-5			2	1B
6-Glycidyloxynaphth-1-yl-oxymethyloxirane (790/2009)	27610-48-6	429-960-2		2		
Glycidyltrimethyl ammonium chloride (790/2009)	3033-77-0	221-221-0	1B	2	---	2
Glyoxal	107-22-2	203-474-9		2		
Halosulphuron-Methyl (ISO); methyl-3-chloro-5-[[[4,6-dimethoxypyrimidine-2-yl]carbamoyl]-sulphamoyl]-1-methyl-1-H-pyrazole-4-carboxylate (2020/217)	100784-20-1	600-130-3			1B	
Heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	76-44-8	200-962-3	2			
Heptachlor epoxide	1024-57-3	213-831-0	2			
Hexabromocyclododecane 1,2,5,6,9,10-Hexabromocyclododecane (618/2012)	25637-99-4 3194-55-6	247-148-4 221-695-9			2 H361 Lact.	
Hexachlorobenzene	118-74-1	204-273-9	1B			
1,1,2,3,4,4-Hexachloro-1,3-butadiene	87-68-3	201-765-5	2*			
1,2,3,4,5,6-Hexachlorocyclohexanes, with the exception of those specified by name.			2			
Hexahydrocyclopenta[c]pyrrol-1-(1H)-ammonium-N-ethoxycarbonyl-N-(p-tolylsulphonyl) azanide		418-350-1		2		
(1,3,4,5,6,7-Hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl-(1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate (2018/1480)	1166-46-7	214-619-0	2			



Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Hexamethylphosphoric acid triamide	680-31-9	211-653-8	1B	1B		
n-Hexane (790/2009)	110-54-3	203-777-6				2
2-Hexanone (790/2009)	591-78-6	209-731-1				2
O-Hexyl-N-ethoxycarbonylthiocarbamate (790/2009)	109202-58-6	432-750-3	1B	1B		
Wood dust (except hardwood dust, see below)			2*			
Hydrazine	302-01-2	206-114-9	1B			
Hydrazine, salts of			1B			
Hydrazine bis(3-carboxy-4-hydroxybenzene sulphonate)	148434-03-1	405-030-1	1B			
Hydrazine bis(3-carboxy-4-hydroxybenzene sulphonate)	81880-96-8	406-090-1		2		
Hydrazine-trinitromethane	4682-01-3	414-850-9	1B			
Hydrazobenzene	122-66-7	204-563-5	1B			
2-[2-Hydroxy-3-(2-chlorophenyl) carbamoyl-1-naphthylazo]-7-[2-hydroxy-3-(3-methylphenyl) carbamoyl-1-naphthylazo]fluorene-9-one	151798-26-4	420-580-2			1B	
2-(2-Hydroxy-3,5-dinitroanilino) ethanol	99610-72-7	412-520-9				2
6-Hydroxy-1-(3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo)phenylazo]-1,2-dihydro-3-pyridine carbonitrile	85136-74-9	400-340-3	1B			
Hydroxylamine (790/2009)	7803-49-8	232-259-2	2			
Hydroxyl ammonium chloride; hydroxyl aminhydrochloride bis(hydroxyl ammonium) sulphate; hydroxylamin sulphate (2 : 1) (790/2009)	5470-11-1 10039-54-0	226-798-2 233-118-8	2			
Hydroxylamine dihydrogen phosphate (790/2009)	19098-16-9	242-818-2	2			
Hydroxylamine-4-methyl benzene sulphonate (790/2009)	53933-48-5	258-872-5	2			
Hydroxylamine phosphate (790/2009)	20845-01-6	244-077-0	2			
Hydroxylammonium hydrogen sulphate (790/2009)	10046-00-1	233-154-4	2			
Hydroxylammonium nitrate (790/2009)	13465-08-2	236-691-2	2			
N-(Hydroxymethyl) acrylamide; methylol acrylamide; [NMA] (2020/1182)	924-42-5	213-103-2	1B	1B		
N-[3-Hydroxy-2-(2-methyl-acryloylamino-methoxy)-propoxymethyl]-2-methyl-acrylamide; n-[2,3-bis(2-methyl-acryloylamino-methoxy)propoxymethyl]-2-methyl-acrylamide; methacrylamide; 2-methyl-n-(2-methyl-acryloylamino-methoxy-methyl)-acrylamide; n-(2,3-dihydroxy-propoxymethyl)-2-methyl-acrylamide, reaction mass of		412-790-8	1B	2		
N-[4-[(2-Hydroxy-5-methylphenyl)azo]phenyl]acetamide; C.I. Disperse yellow 3	2832-40-8	220-600-8	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
4-(7-Hydroxy-2,4,4-trimethyl-2-chromanil)resorcinol-4-yl-tris(6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulphonate) and 4-(7-Hydroxy-2,4,4-trimethyl-2-chromanil)resorcinol-bis(6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulphonate), 2:1 reaction mass of	140698-96-0	414-770-4	2			
Hymexazole (ISO); 3-hydroxy-5-methylisoxazole (2020/1182)	10004-44-1	233-000-6			2	
Imazalil (ISO) 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole (2015/1221)	35554-44-0	252-615-0	2			
Imazamox (ISO); (RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methoxymethylnicotinic acid (2021/849)	114311-32-9	601-305-7			2	
Imidazol (2015/1221)	288-32-4	206-019-2			1B	
Imiprothrin (ISO); reaction mass of: [2,4-dioxo(prop-2-in-1-yl)imidazolidine-3-yl]methyl-(1R)-cis-chrysanthemate; [2,4-dioxo(prop-2-in-1-yl)imidazolidine-3-yl]methyl-(1R)-trans-chrysanthemate (2020/1182)	72963-72-5	428-790-6	2			
Indium phosphide (618/2012)	22398-80-7	244-959-5	1B			2
Ioxynil (ISO); 4-hydroxy-3,5-diiodbenzonitrile	1689-83-4	216-881-1			2	
Ipconazole (ISO); (1RS,2SR,5RS;1RS,2SR,5SR)-2-(4-chlorbenzyl)-5-isopropyl-1-(1H-1,2,4-triazole-1-ylmethyl)cyclopentaneol (2020/1182)	125225-28-7 115850-69-6 115937-89-8	603-038-1			1B	
Iprovalicarb (ISO); Isopropyl[(2S)-3-methyl-1-[[1-(4-methylphenyl)ethyl]amino]-1-oxobutan-2-yl]carbamate (2020/1182)	140923-17-7	604-209-3	2			
O-Isobutyl-N-ethoxy-carbonylthiocarbamate (790/2009)	103122-66-3	434-350-4	1B	1B		
4,4'-Isobutylethylidene diphenol	6807-17-6	401-720-1				1B
Isobutyl nitrite	542-56-3	208-819-7	1B	2		
2-(Isocyanatosulphonylmethyl)benzoic acid methyl ester	83056-32-0	410-900-9		2		
Isoflucypram; N-(5-chloro-2-isopropylbenzyl)-N-cyclopropyl-3-(difluormethyl)-5-fluoro-1-methyl-1H-pyrazole-4-carboxamide (2022/692)	1255734-28-1	811-438-4				2
Isoprene; methyl-1,3-butadiene	78-79-5	201-143-3	1B	2	---	---
4,4'-Isopropylidendiphenol (2016/1179)	80-05-7	201-245-8			---	1B
Isoproturon (ISO); 3-(4-isopropylphenyl)-1,1-dimethylurea (2018/1480)	34123-59-6	251-835-4	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Isopyrazam; reaction mass of 3-(difluoromethyl)-1-methyl-N-[(1RS,4SR,9RS)-1,2,3,4-tetrahydro-9-isopropyl-1,4-methanonaphthalen-5-yl]-pyrazole-4-carboxamide and 3-(difluoromethyl)-1-methyl-N-[(1RS,4SR,9SR)-1,2,3,4-tetrahydro-9-isopropyl-1,4-methanonaphthalen-5-yl]-pyrazole-4-carboxamide [≥ 78% Z-isomer, ≤ 15% E-isomer relative amount] (2022/692)	881685-58-1	632-619-2	2		1B	
Isoxaflutole (ISO); 5-cyclopropyl-1,2-oxazol-4-yl-α,α,α-trifluoro-2-mesyl-p-tolylketone (2015/1221)	141112-29-0	604-222-4			2	
Potassium bromate	7758-01-2	231-829-8	1B			
Potassium chromate	7789-00-6	232-140-5	1B H350 i	1B		
Potassium dichromate	7778-50-9	231-906-6	1B	1B	1B	1B
Potassium-1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-yliden)-1-propenyl]pyrazol-5-olate; [content of N,N-dimethylformamide (EC No. 200-679-5) ≥ 0.5%] (790/2009)	183196-57-8	418-260-2			1B	
Potassium perfluorooctane sulphonate, see: Perfluorooctane sulphonic acid						
Potassium permanganate (2018/1480)	7722-64-7	231-760-3			2	
Potassium titanium oxide (K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> ) (790/2009)	12056-51-8	432-240-0	2			
Ceramic mineral fibres, refractory (790/2009) Special purpose fibres; [artificially produced non-directional vitreous (silicate) fibres containing less than or equal to 18% by weight of alkali metal and alkaline earth metal oxides (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+ BaO)]. (Classification depends on the fulfilment of certain criteria, see TRGS 905 or 790/2009)			1B H350 i			
Ketoconazole 1-[4-[4-[[[(2SR,4RS)-2-(2,4-dichlorophenyl)-2-(imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]ethanone (790/2009)	65277-42-1	265-667-4				1B
Silicic acid, lead-nickel salt (790/2009)	68130-19-8		1A H350 i		1A	2
Carbon disulphide	75-15-0	200-843-6			2	2
Carbon monoxide	630-08-0	211-128-3			1A	
Kresoxim-methyl (ISO); methyl-(E)-2-methoxyimino-[2-(o-tolyloxymethyl)phenyl]acetate	143390-89-0	604-351-6	2			
Slimes and slurries, refined electrolytic copper, decopperised, nickel sulphate (790/2009)	92129-57-2	295-859-3	1A H350 i	2	1B	
Slimes and slurries, electrolytic copper refining, decopperised, (790/2009)	94551-87-8	305-433-1	1A H350 i	2	1A	

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Lenacil (ISO); 3-cyclohexyl-6,7-dihydro-1H-cyclopenta[d]pyrimidine-2,4-(3H,5H)-dione (2015/1221)	2164-08-1	218-499-0	2			
Leucomalachite green; N,N,N',N'-tetramethyl-4,4'-benzylidenedianiline (618/2012)	129-73-7	204-961-9	2	2		
Lindane (ISO); γ-HCH or γ-BHC; γ-1,2,3,4,5,6-hexachlorocyclohexane	58-89-9	200-401-2	2*	---		
Linuron (ISO); 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea	330-55-2	206-356-5	2		1B	2
Lithium perfluorooctane sulphonate, see: Perfluorooctane sulphonic acid						
Malachite green hydrochloride; C.I. Basic Green 4 Malachite green oxalate	569-64-2 2437-29-8	209-322-8 219-441-7			2	
Mancozeb (ISO); manganese ethylene-bis (dithiocarbamate) (polymer), complex with zinc salt (2021/849)	8018-01-7	616-995-5	2		1B	
Maneb (ISO); Manganese ethylene bis(dithiocarbamate) (polymer) (790/2009)	12427-38-2	235-654-8			2	
Margosa, extract [from the seeds of Azadirachta indica, extracted using water and further processed using organic solvents] (2022/692)	84696-25-3	83-644-7			2	
Melamine; 2,4,6-triamino-1,3,5-triazine (2022/692)	108-78-1	203-615-4	2			
Mepanipyrim; 4-Methyl-N-phenyl-6-(1-propynyl)-2-pyrimidinamine (790/2009)	110235-47-7	432-140-7	2			
Mesotrione (ISO); 2-[4-(Methylsulphonyl)-2-nitrobenzoyl]- 1,3- cyclohexandione (2020/1182)	104206-82-8	600-533-4			2	
4-Mesyl-2-nitrotoluol (790/2009)	1671-49-4	430-550-0				2
Metaflumizone (ISO); (EZ)-2'-[2-(4-Cyanophenyl)-1-(α,α,α-trifluoro-m-tolyl)- ethylidene]-[4-(trifluoromethoxy)phenyl]carbanilohydrazide [E-isomer ≥ 90%, Z-isomer ≤ 10% relative share]; (E)-2'-[2-(4-cyanophenyl)-1-(α,α,α-trifluoro-m- tolyl)ethylidene]-[4- (trifluoromethoxy)phenyl]carbanilohydrazide [2] (2020/217)	139968-49-3 852403-68-0				2 Lact.	2
Metaldehyde (ISO); 2,4,6,8-tetramethyl- 1,3,5,7-tetraoxacyclooctane	108-62-3	203-600-2				2
Metazachlor (ISO); 2-chloro-N-(2,6-dimethylphenyl)-N-(1H-pyrazol-1- ylmethyl)acetamide (618/2012)	67129-08-2	266-583-0	2			
Metconazole (ISO); (1RS,5RS;1RS,5SR)-5-(4-Chlorbenzyl)-2,2-dimethyl-1-(1H- 1,2,4-triazol-1-ylmethyl)cyclopentanol (790/2009)	125116-23-6	603-031-3			2	

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2-Methoxyaniline	90-04-0	201-963-1	1B	2		
Methoxyacetic acid	625-45-6	210-894-6			1B	1B
2-Methoxyethanol	109-86-4	203-713-7			1B	1B
2-Methoxyethyl acetate; methyl glycol acetate	110-49-6	203-772-9			1B	1B
2-Methoxyethyl acrylate (2020/1182)	3121-61-7	221-499-3		2	1B	1B
(Z)-2-Methoxyimino-2-[2-(tritylamino)thiazol-4-yl]acetic acid (790/2009)	64485-90-1	431-520-1	2			
7-Methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one; [content of formamide (EC No. 200-842-0) ≥ 0.5%] (790/2009)	199327-61-2	429-400-7			1B	
N-Methoxy-N-[1-methyl-2-(2,4,6-trichlorophenyl)-ethyl]-3-(difluoromethyl)-1-methylpyrazole-4-carboxamide; Pydiflumetofen (2021/849)	1228284-64-7	817-852-1	2			2
2-Methoxy-1-propanol	1589-47-5	216-455-5	---		1B	---
2-Methoxy propyl acetate-1	70657-70-4	274-724-2			1B	
6-Methoxy-m-toluidine 2-Methoxy-5-methylaniline	120-71-8	204-419-1	1B			
N-Methyl acetamide	79-16-3	201-182-6	---	---	1B	---
Methyl acrylamidomethoxyacetate (with ≥ 0.1% acrylamide)	77402-03-0	401-890-7	1B	1B		
Methyl acrylamidoglycolate (with ≥ 0.1% acrylamide)	77402-05-2	403-230-3	1B	1B		
2-Methylaziridine	75-55-8	200-878-7	1B			
(Methyl-ONN-azoxy)methyl acetate	592-62-1	209-765-7	1B		1B	
N-Methylbis(2-chloroethyl)amine (TRGS 905 No. 4)	51-75-2	200-120-5	1A*	1B*		
2-Methyl-5-tert-butylthiophenol (790/2009)	7340-90-1	444-970-7			2	
6-Methyl-1,3-dithiolo(4,5-b)quinoxalin-2-one	2439-01-2	219-455-3				2
4,4'-Methylenebis(2-ethylaniline)	19900-65-3	243-420-1	2	---	---	---
Reaction mass of the reaction product of 4,4'-methylenebis[2-(4-hydroxybenzyl)-3,6-dimethylphenol] and 6-diazo-5,6-dihydro-5-oxo-naphthalene sulphonate (1:2) and the reaction product of 4,4'-methylenebis[2-(4-hydroxybenzyl)-3,6-dimethylphenol] and 6-diazo-5,6-dihydro-5-oxo-naphthalene sulphonate (1:3)	157321-59-0	417-980-4	2			
(Methylenebis(4,1-phenyleneazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diy)))-1,1'-dipyridinium dichloride dihydrochloride	118658-99-4	401-500-5	1B			
N,N'-methylenedimorpholine; N,N'-methylene bismorpholine; [formaldehyde released from N,N'-methylene bismorpholine]; [MBM].	5625-90-1	227-062-3	1B	2		

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
4,4'-Methylene diphenyl diisocyanate 2,2'-Methylene diphenyl diisocyanate 2,4'-Methylene diphenyl diisocyanate Methylene diphenyl diisocyanate (790/2009)	101-68-8 2536-05-2 5873-54-1 26447-40-5	202-966-0 219-799-4 227-534-9 247-714-0	2	---	---	---
4,4'-Methylenediphenyl diisocyanate tech. (polymeric) MDI, pMDI (in the form of respirable aerosols, respirable fraction)	9016-87-9	618-498-9	2*	---	---	---
4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	1B			
N-Methylformamide	123-39-7	204-624-6			1B	
Methylhydrazine (2017/776)	60-34-4	200-471-4	1B			
2-Methylimidazole (2020/217)	693-98-1	211-765-7			1B	2
4-Methylimidazole	# 822-36-6	212-497-3	1B		2	1B
Methyliodide	74-88-4	200-819-5	2			
Methyl isocyanate (790/2009)	624-83-9	210-866-3			2	
2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (2017/776)	71868-10-5	400-600-6			1B	1B
1-Methyl-3-nitro-1-nitrosoguanidine (790/2009)	70-25-7	200-730-1	1B			
N-Methylol chloroacetamide	2832-19-1	220-598-9	---	2*	---	---
Methylphenylenediamine; diaminotoluene [technical product – reaction mass of 4-Methyl-m-phenylenediamine (EC No. 202-453-1) and 2-Methyl-m-phenylenediamine (EC No. 212-513-9)] (790/2009)			1B	2		2
2-Methyl-m-phenylenediamine	823-40-5	212-513-9		2		
4-Methyl-m-phenylenediamine (790/ 2009)	95-80-7	202-453-1	1B	2		2
4-Methyl-m-phenylenediamine sulphate	65321-67-7	265-697-8	1B			
3-Methyl pyrazole (2021/849)	1453-58-3	215-925-7			1B	
N-Methyl-2-pyrrolidone (2016/1179)	872-50-4	212-828-1			1B	
Methyl mercury chloride (2020/217)	115-09-3	204-064-2	2		1A Lact.	2
Methyl salicylate (2021/849)	119-36-8	204-317-7			2	
Metosulam (ISO) N-(2,6-dichloro-3-methylphenyl)-5,7-dimethoxy[1,2,4]-triazolo[1,5-a]pyrimidine-2-sulphonamide (2015/1221)	139528-85-1	604-145-6	2			
Michler's Ketone	90-94-8	202-027-5	1B	2	---	---
Mineral wool (see TRGS 905) artificially produced non-directional vitreous (silicate) fibres containing over 18% by weight of alkali metal and alkaline earth metal oxides (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+ BaO (790/2009). (Classification depends on the fulfilment of certain criteria, see TRGS 905 or 790/2009)			1B* 2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Molinate (ISO); S-ethyl-1-perhydroazepincarbothioate; S-ethyl-perhydroazepine-1-carbothioate	2212-67-1	218-661-0	2			2
Molybdenum trioxide (790/2009)	1313-27-5	215-204-7	2			
Monocrotophos (ISO); dimethyl-1-methyl-2-(methylcarbamoyl)vinyl phosphate	6923-22-4	230-042-7		2		
Monuron (ISO); 3-(4-Chlorophenyl)-1,1-dimethylurea	150-68-5	205-766-1	2			
Morpholine-4-carbonyl chloride	15159-40-7	239-213-0	1B* 2			
Myclobutanil (ISO); 2-(4-chlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)hexanenitrile	88671-89-0	410-400-0			2	
Naphthalene	91-20-3	202-049-5	2	---	---	---
2-Naphthylamine	91-59-8	202-080-4	1A			
2-Naphthylamine, salts of			1A			
1,5-Naphthylene diamine	2243-62-1	218-817-8	2			
1-(1-Naphthylmethyl)quinolinium chloride	65322-65-8	406-220-7	2	2		
Sodium chromate	7775-11-3	231-889-5	1B	1B	1B	1B
Sodium dichromate (790/2009)	10588-01-9	234-190-3	1B	1B	1B	1B
Sodium dichromate dihydrate	7789-12-0	234-190-3	1B	1B	1B	1B
Sodium N-(hydroxymethyl)glycinate; [formaldehyde released from sodium N-(hydroxymethyl)glycinate] (2020/1182)	70161-44-3	274-357-8	1B	2		
Sodium perborate Sodium peroxometaborate Sodium peroxoborate (790/2009)	15120-21-5 7632-04-4	239-172-9 231-556-4			1B	2
Nickel, metal (790/2009)	7440-02-0	231-111-4	2			
Dialuminium-nickel tetraoxide; Nickel titanium trioxide; Nickel titanium oxide; Nickel-divanadium hexaoxide; Cobalt dimolybdenum nickel octa oxide; Nickel zirconium trioxide; Molybdenum-nickel tetraoxide; Nickel tungsten tetraoxide; Olivine, nickel green; Lithium nickel dioxide; Molybdenum nickel oxide (790/2009)	12004-35-2 12035-39-1 12653-76-8 52502-12-2 68016-03-5 70692-93-2 14177-55-0 14177-51-6 68515-84-4 12031-65-1 12673-58-4	234-454-8 234-825-4 235-752-0 257-970-5 268-169-5 274-755-1 238-034-5 238-032-4 271-112-7 620-400-4 -				
Nickel-Barium-Titanium-Primer-Priderite; C.I. pigment yellow 157; C.I. 77900 (790/2009)	68610-24-2	271-853-6	1A H350 i			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Nickel bis(4-cyclohexyl butyrate) (790/2009)	3906-55-6	223-463-2	1A H350 i	2	1B	
Nickel bis(dihydrogen phosphate) Nickel bis(phosphinate) see: Nickel hydrogen phosphate						
Nickel bis(sulphamate); nickel sulphamate (2020/217)	13770-89-3	237-396-1	1A H350 i	2	1B	
Nickel bis(tetrafluorborate) (790/2009)	14708-14-6	238-753-4	1A H350 i	2	1B	
Nickel boride (NiB) Dinickel boride Trinickel boride Nickel boride Dinickel silicide Nickel disilicide Dinickel phosphide Nickel boron phosphide (790/2009)	12007-00-0 12007-01-1 12007-02-2 12619-90-8 12059-14-2 12201-89-7 12035-64-2 65229-23-4	234-493-0 234-494-6 234-495-1 235-723-2 235-033-1 235-379-3 234-828-0 -	1A H350 i			
Nickel carbonate (790/2009) Carbonic acid, nickel salt	3333-67-3 16337-84-1	222-068-2 240-408-8	1A H350 i	2	1B	
Nickel chromate (790/2009)	14721-18-7	238-766-5	1A H350 i			
Nickel di(acetate) Nickel acetate (790/2009)	373-02-4 14998-37-9	206-761-7 239-086-1	1A H350 i	2	1B	
Nickel diarsenide Nickel arsenide (790/2009)	12068-61-0 27016-75-7	235-103-1 248-169-1	1A H350 i			
Nickel dibenzoate (790/2009)	553-71-9	209-046-8	1A H350 i	2	1B	
Nickel dibromide, see: Nickel difluoride						
Nickel dichlorate Nickel dibromate Ethyl hydrogen sulphate, nickel(II) salts (790/2009)	67952-43-6 14550-87-9 71720-48-4	267-897-0 238-596-1 275-897-7	1A H350 i	2	1B	
Nickel dichloride (790/2009)	7718-54-9	231-743-0	1A H350 i	2	1B	
Nickel dichromate (790/2009)	15586-38-6	239-646-5	1A H350 i	2	1B	
Nickel dicyanide (790/2009)	557-19-7	209-160-8	1A H350 i			



Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Nickel difluoride Nickel dibromide Nickel diiodide Nickel-potassium fluoride (790/2009)	10028-18-9 13462-88-9 13462-90-3 11132-10-8	233-071-3 236-665-0 236-666-6 -	1A H350 i	2	1B	
Nickel formate Formic acid, nickel salt Formic acid, copper-nickel salt (790/2009)	3349-06-2 15843-02-4 68134-59-8	222-101-0 239-946-6 268-755-0	1A H350 i	2	1B	
Nickel dihydroxide (790/2009)	12054-48-7 11113-74-9	235-008-5 234-348-1	1A H350 i	2	1B	
Nickel diiodide, see: Nickel difluoride						
Nickel dipotassium bis(sulphate) Nickel diammonium bis(sulphate); Diammonium nickel bis(sulphate) (790/2009)	13842-46-1 15699-18-0	237-563-9 239-793-2	1A H350 i	2	1B	
Nickel dilactate (790/2009)	16039-61-5		1A H350 i	2	1B	
Nickel dinitrate Nitric acid, nickel salt (790/2009)	13138-45-9 14216-75-2	236-068-5 238-076-4	1A H350 i	2	1B	
Nickel dioxide (790/2009)	12035-36-8	234-823-3	1A H350 i			
Nickel diperchlorate; Perchloric acid, nickel(II) salt (790/2009)	13637-71-3	237-124-1	1A H350 i	2	1B	
Nickel dithiocyanate (790/2009)	13689-92-4	237-205-1	1A H350 i	2	1B	
Nickel hexafluorosilicate (790/2009)	26043-11-8	247-430-7	1A H350 i	2	1B	
Nickel hydrogen phosphate Nickel bis(dihydrogen phosphate) Trinickel-bis(orthophosphate) Dinickel diphosphate Nickel bis(phosphinate) Nickel phosphinate Phosphoric acid, calcium nickel salt Diphosphoric acid, nickel(II) salt (790/2009)	14332-34-4 18718-11-1 10381-36-9 14448-18-1 14507-36-9 36026-88-7 17169-61-8 19372-20-4	238-278-2 242-522-3 233-844-5 238-426-6 238-511-8 252-840-4 - -	1A H350 i			
Nickel potassium fluoride, see: Nickel difluoride						
Nickel matte as well as roasting or electrolytic refinement of (790/2009, see also TRGS 906)			1A			
Nickel monoxide Nickel oxide Bunsenite (790/2009)	1313-99-1 11099-02-8 34492-97-2	215-215-7 234-323-5 -	1A H350 i			

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Nickel(II) octanoate (790/2009)	4995-91-9	225-656-7	1A H350 i	2	1B	
Nickel oxalate Oxalic acid, nickel salt (790/2009)	547-67-1 20543-06-0	208-933-7 243-867-2	1A H350 i			
Nickel phosphinate, see: Nickel hydrogen phosphate						
Nickel selenate	15060-62-5	239-125-2	1A H350 i	2	1B	
Nickel selenide (790/2009)	1314-05-2	215-216-2	1A H350 i			
Nickel(II) selenite (790/2009)	10101-96-9	233-263-7	1A H350 i			
Nickel(II) silicate Dinickel orthosilicate Nickel silicate (3:4) Silicic acid, nickel salt Trihydrogenhydroxy-bis[orthosilicato(4-)]trinicelate(3-) (790/2009)	21784-78-1 13775-54-7 31748-25-1 37321-15-6 12519-85-6	244-578-4 237-411-1 250-788-7 253-461-7 235-688-3	1A H350 i			
Nickel(II) stearate; Nickel(II) octadecanoate (790/2009)	2223-95-2	218-744-1	1A H350 i	2	1B	
Nickel sulphate (790/2009)	7786-81-4	232-104-9	1A H350 i	2	1B	
Nickel(II) sulphide Nickel sulphide Millerite (790/2009)	16812-54-7 11113-75-0 1314-04-1	240-841-2 234-349-7 -	1A H350 i	2		
Nickel(II) sulphite; Nickel tellurium trioxide; Nickel tellurium tetraoxide; Molybdenum nickel hydroxide oxide phosphate (790/2009)	7757-95-1 15851-52-2 15852-21-8 68130-36-9	231-827-7 239-967-0 239-974-9 268-585-7	1A H350 i			
Nickel telluride (790/2009)	12142-88-0	235-260-6	1A H350 i			
Nickel tetracarbonyl	13463-39-3	236-669-2	2		1B	

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Nickel(II) trifluoroacetate	16083-14-0	240-235-8				
Nickel(II) propionate	3349-08-4	222-102-6				
Nickel bis(benzene sulphonate)	39819-65-3	254-642-3				
Nickel(II) hydrogen citrate	18721-51-2	242-533-3				
Citric acid, ammonium nickel salt	18283-82-4	242-161-1				
Citric acid, nickel salt	22605-92-1	245-119-0				
Nickel bis(2-ethylhexanoate)	4454-16-4	224-699-9				
2-Ethylhexanoic acid, nickel salt	7580-31-6	231-480-1				
Dimethylhexanoic acid, nickel salt	93983-68-7	301-323-2				
Nickel(II) isooctanoate	29317-63-3	249-555-2				
Nickel isooctanoate	27637-46-3	248-585-3				
Nickel bis(isononanoate)	84852-37-9	284-349-6				
Nickel(II) neononanoate	93920-10-6	300-094-6				
Nickel(II) isodecanoate	85508-43-6	287-468-1				
Nickel(II) neodecanoate	85508-44-7	287-469-7	1A			
Neodecanoic acid, nickel salt	51818-56-5	257-447-1	H350	2	1B	
Nickel(II) neoundecanoate	93920-09-3	300-093-0	i			
Bis(D-gluconato-O1,O2)nickel	71957-07-8	276-205-6				
Nickel-3,5-bis(tert-butyl)-4-hydroxybenzoate(1:2)	52625-25-9	258-051-1				
Nickel(II) palmitate	13654-40-5	237-138-8				
(2-Ethylhexanoato-O)(Isononanoato-O)nickel	85508-45-8	287-470-2				
(Isononanoato-O)(isooctanoato-O)nickel	85508-46-9	287-471-8				
(Isooctanoato-O)(neodecanoato-O)nickel	84852-35-7	284-347-5				
(2-Ethylhexanoato-O)(Isodecanoato-O)nickel	84852-39-1	284-351-7				
(2-ethylhexanoato-O)(Neodecanoato-O)nickel	85135-77-9	285-698-7				
(Isodecanoato-O)(isooctanoato-O)nickel	85166-19-4	285-909-2				
(Isodecanoato-O)(isononanoato-O)nickel	84852-36-8	284-348-0				
(Isononanoato-O)(neodecanoato-O)nickel	85551-28-6	287-592-6				
Fatty acids, C6-19-branched, nickel salts	91697-41-5	294-302-1				
Fatty acids, C8-18 and C18-unsaturated, nickel salts	84776-45-4	283-972-0				
2,7-Naphthalenedisulphonic acid, nickel(II) salt (790/2009)	72319-19-8	-				
Nickel triuranium decaoxide (790/2009)	15780-33-3	239-876-6	1A H350 i			
Nickel-tin trioxide; Nickel stannate (790/2009)	12035-38-0	234-824-9	1A H350 i			
5-Nitroacenaphthene	602-87-9	210-025-0	1B			
2-Nitro-4-aminophenol	119-34-6	204-316-1	2*			
2-Nitroanisole	91-23-6	202-052-1	1B			
Nitrobenzene (944/2013)	98-95-3	202-716-0	2			1B
4-Nitrobiphenyl	92-93-3	202-204-7	1B			
Nitrofen (ISO); 2,4-dichloropheny-4-nitrophenyl ether	1836-75-5	217-406-0	1B		1B	
2-Nitronaphthalene	581-89-5	209-474-5	1B			
2-Nitro-p-phenylenediamine	5307-14-2	226-164-5	2*			
N-(2-Nitrophenyl)-phosphorotriamide (2022/692)	874819-71-3	477-690-9			2	1B
2-Nitropropane	79-46-9	201-209-1	1B			
Nitropyrenes (mono-, di-, tri-, tetra-), isomers	5522-43-0	226-868-2	2*			
N-Nitrosodi-n-butylamine (TRGS 905 No. 4)	924-16-3	213-101-1	1B*			

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N-Nitrosodiethanolamine	1116-54-7	214-237-4	1B			
N-Nitrosodiethanolamine (TRGS 905 No. 4)	55-18-5	200-226-1	1B*			
N-Nitrosodimethylamine	62-75-9	200-549-8	1B			
N-Nitrosodi-i-propylamine (TRGS 905 No. 4)	601-77-4	690-128-9	1B*			
N-Nitrosodi-n-propylamine (790/2009)	621-64-7	210-698-0	1B			
N-Nitrosoethylphenylamine (TRGS 905 No. 4)	612-64-6	866-116-6	1B*			
N-Nitrosomethylethylamine (TRGS 905 No. 4)	10595-95-6	621-991-1	1B*			
N-Nitrosomethylphenylamine (TRGS 905 No. 4)	614-00-6	210-366-5	1B*			
N-Nitrosomorpholine	# 59-89-2		1B	2		
p-Nitrosophenol	104-91-6	203-251-6		2		
N-Nitrosopiperidine (TRGS 905 No. 4)	100-75-4	202-886-6	1B*			
N-Nitrosopyrrolidine (TRGS 905 No. 4)	930-55-2	213-218-8	1B*			
5-Nitro-o-toluidine, 2-Amino-4-nitrotoluene	99-55-8	202-765-8	2	---	---	---
5-Nitro-o-toluidine, hydrochloride	51085-52-0	256-960-8	2	---	---	---
2-Nitrotoluene	88-72-2	201-853-3	1B	1B	---	2
Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Sodium nonadecafluorodecanoate (2017/776)	335-76-2 3108-42-7 3830-45-3	206-400-3 221-470-5 -	2		1B Lact.	2
Nonylphenol/linear side chain	25154-52-3	246-672-0	---	---	2	2
4-Nonylphenol/branched side chain	84852-15-3	284-325-5	---	---	2	2
Octabromodiphenyl ether	32536-52-0	251-087-9	---	---	1B	2
Octamethylcyclotetrasiloxane, D4 (2020/1182)	556-67-2	209-136-7	---	---	---	2
Olaquinox	23696-28-8	245-832-7	2*	1B*	---	2*
Oxadiargyl (ISO); 3-[2,4-chloro-5-(2-propynyloxy)phenyl]-5-(1,1-dimethylethyl)- 1,3,4-oxadiazol-2(3H)-one (758/2013)	39807-15-3	254-637-6			2	
Oxidation bitumen: vapour and aerosol during hot processing of oxidation bitumen			1B*	2*	---	---
Oxirane methanol; 4-methyl benzene sulphonate; (S) toluene sulphonic acid glycidyl ester	70987-78-9	417-210-7	1B	2		
3-Oxoandrost-4-en-17-beta-carboxylic acid (790/2009)	302-97-6	414-990-0				2
4,4'-Oxydianiline and its salts	101-80-4	202-977-0	1B	1B	---	2
Ozone	10028-15-6	233-069-2	2*	---	---	---

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Paclobutrazol (ISO); (2RS,3RS)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)pentan-3-ol (2020/1182)	76738-62-0	616-379-6			2	
Reaction products of Paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis[5-methyloxazolidine]] [formaldehyde released from oxazolidine] (2017/776)			1B	2		
Reaction products of Paraformaldehyde and 2-hydroxypropylamine (ratio 1: 1); [formaldehyde released from α,α,α-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol]; [HPT] (2017/776)			1B	2		
Passive smoking (measures for the protection of workers at their workplaces are regulated by the German Occupational Health and Safety Act ( <i>Arbeitsschutzgesetz</i> ) and the German Workplace Regulation ( <i>Arbeitsstättenverordnung</i> ).			1A*	2*	1A*	---
Penconazole (ISO); 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazol (605/2014)	66246-88-6	266-275-6			2	
Pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine (2022/692)	40487-42-1	254-938-2			2	
Pentachloroethane	76-01-7	200-925-1	2			
Pentachlorophenol	87-86-5	201-778-6	1B* 2	2*	1B*	---
Pentachlorophenol, salts of			1B*			
Pentachlorophenol, alkali salts of - sodium salt - potassium salt	131-52-2 7778-73-6	205-025-2 231-911-3	1B* 2			
Pentapotassium 2,2',2'',2''',2''''-(ethane-1,2-diylnitrilo) pentaacetate (2022/692)	7216-95-7	404-290-3			1B	
Pentasodium (carboxylatomethyl) iminobis (ethylene nitrilo) tetraacetate (2022/692)	140-01-2	205-391-3			1B	
Perboric acid (H <sub>3</sub> BO <sub>2</sub> (O <sub>2</sub> )), monosodium salt trihydrate] perboric acid, sodium salt tetrahydrate Perboric acid (HBO(O <sub>2</sub> )), sodium salt tetrahydrate, sodium peroxoborate hexahydrate (790/2009)	13517-20-9 37244-98-7 10486-00-7 -	603-902-8 234-390-0 600- 611-8 -			1B	2
Perfluoroheptanoic acid; Tridecafluoroheptanoic acid (2022/692)	375-85-9	206-798-9			1B	
Perfluorooctanoic acid (944/2013)	335-67-1	206-397-9	2		1B Lact.	
Perfluorooctane sulphonic acid, Heptadecafluorooctane-1-sulphonic acid Potassium perfluorooctane sulphonate, Potassium heptadecafluorooctane-1-sulphonate Diethanolamine perfluorooctane sulphonate Ammonium perfluorooctane sulphonate, Ammonium heptadecafluorooctane sulphonate Lithium perfluorooctane sulphonate, Lithium heptadecafluorooctane sulphonate (790/2009)	1763-23-1 2795-39-3 70225-14-8 29081-56-9 29457-72-5	217-179-8 220-527-1 274-460-8 249-415-0 249-644-6	2		1B Lact.	

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Perfluornonan-1-oic acid and its sodium and Ammonium salts (2016/1179)	375-95-1 21049-39-8 4149-60-4	206-801-3 - -	2		1B Lact.	2
Phenol	108-95-2	203-632-7	---	2	---	---
Phenol, dodecyl-, branched Phenol, 2-dodecyl-, branched Phenol, 3-dodecyl-, branched Phenol, 4-dodecyl-, branched Phenol, (tetrapropenyl) derivatives (2016/1179)	121158-58-5 1801269-80-6 1801269-77-1 210555-94-5 74499-35-7	310-154-3 701-105-0 701-107-1 640-104-9 616-100-8				1B
Phenolphthalein (790/2009)	77-09-8	201-004-7	1B	2		2
4-Phenyl azophenylene-1,3-diamine monohydrochloride, see: Chrysoidin monohydrochloride						
1-Phenylazo-2-naphthol	842-07-9	212-668-2	2	2	---	---
(4-Phenylbutyl)phosphinic acid (790/2009)	86552-32-1	420-450-5	2			
4,4'-(1,3-Phenylene-bis(1-methylethylidene))bisphenol (790/2009)	13595-25-0	428-970-4				2
1,2-Phenylendiamine	95-54-5	202-430-6	2	2	---	---
1,2-Phenylenediamine dihydrochloride	615-28-1	210-418-7	2	2	---	---
1,3-Phenylendiamine	108-45-2	203-584-7	---	2	---	---
1,3-Phenylenediamine dihydrochloride	541-69-5	208-790-0	---	2	---	---
(R)- $\alpha$ -Phenyl ethyl ammonium-(-)-(1R, 2S)-(1,2-epoxypropyl)phosphonate monohydrate	25383-07-7	418-570-8				2
Phenylhydrazine	100-63-0	202-873-5	1B	2	---	---
Phenylhydrazine hydrochloride	27140-08-5	248-259-0	1B	2		
Phenylhydrazinium chloride	59-88-1	200-444-7	1B	2	---	---
Phenylhydrazinium sulphate, 2:1	52033-74-6	257-622-2	1B	2		
N-Phenyl-2-naphthylaniline	135-88-6	205-223-9	2			
trans-4-Phenyl-L-proline	96314-26-0	416-020-1				2
Phosmet (ISO); S-[(1,3-dioxo-1,3-dihydro-2H-isoindol-2-yl)methyl]-O,O-dimethyldithiophosphate; O,O-dimethyl-S-phthalimidomethyldithiophosphate (2018/1480)	732-11-6	211-987-4				2
Phosphoric acid, calcium nickel salt, see: Nickel hydrogen phosphate						
Phosphamidon (ISO); 2-chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate	13171-21-6	236-116-5		2		

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Phoxim (ISO); α-(diethoxyphosphinothioylimino)phenylacetonitrile (790/2009)	14816-18-3	238-887-3				2
Pinoxaden (ISO) 8-(2,6-diethyl-4-methylphenyl)-7-oxo-1,2,4,5-tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate (2018/1480)	243973-20-8	635-361-9			2	
Piperazine, solid and liquid (790/2009)	110-85-0	203-808-3			2	2
Piperazine hydrochloride; Piperazine dihydrochloride; Piperazine phosphate (790/2009)	6094-40-2 142-64-3 1951-97-9	228-042-7 205-551-2 217-775-8			2	2
3-(Piperazin-1-yl)-benzo[d]isothiazole hydrochloride (790/2009)	87691-88-1	421-310-6				2
Pirimicarb (ISO); 2-(dimethylamino)-5,6-dimethylpyrimidin-4-yl dimethyl carbamate (2016/1179)	23103-98-2	245-430-1	2			
Polychlorinated biphenyls	1336-36-3	215-648-1	2*		1B Lact.	1B*
Polyhexamethylene biguanide hydrochlorides (2016/1179)	27083-27-8 32289-58-0	608-042-7 608-723-9	2			
Profoxydim (ISO); 2-[(E)-1-[(2RS)-2-(4-chlorophenoxy)propoxyimino]butyl]-3-hydroxy-5-(thian-3-yl)cyclohex-2-en-1-one (790/2009)	139001-49-3	604-105-8	2		2	
3-Propanolide	57-57-8	200-340-1	1B			
1,3-Propane sultone; 1,2-oxathiolane-2,2-dioxide	1120-71-4	214-317-9	1B			
Propargite (ISO); 2-(4-tert-butylphenoxy)cyclohexylprop-2-ynylsulphite	2312-35-8	219-006-1	2			
Propazine (ISO); 2-chloro-4,6-bis(isopropylamino)-1,3,5-triazine	139-40-2	205-359-9	2			
Propiconazole (ISO); (2RS,4RS;2RS,4SR)-1-[[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole (2018/1480)	60207-90-1	262-104-4			1B	
1,2-Propylene oxide (2016/1179)	75-56-9	200-879-2	1B	1B		
Propylene thiourea	2122-19-2	620-432-9			2	
Iso-propyl glycidyl ether	4016-14-2	233-672-9	---	2*	---	---
Proquinazid (ISO); 6-iodo-2-propoxy-3-propylquinazolin-4(3H)-one (944/2013)	189278-12-4	606-168-7	2			
Pymetrozine (ISO); (E)-4,5-dihydro-6-methyl-4-(3-pyridylmetylenamino)-1,2,4-triazine-3(2H) (2020/1182)	123312-89-0	602-927-1	2		2	2
Pyrogallol; 1,2,3-Trihydroxybenzene	87-66-1	201-762-9		2		

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Pyrolysis products from organic material, see also those specified by name (see below, TRGS 906)			1A* or 1B*			
Respirable quartz dust (see below, TRGS 906)	14808-60-7	238-878-4				
Mercury (790/2009)	7439-97-6	231-106-7			1B	
Mercury dichloride (790/2009)	7487-94-7	231-299-8		2		2
Quinoclamine (ISO); 2-amino-3-chloro-1,4-naphthoquinone (2022/692)	2797-51-5	220-529-2	2		2	
Quinoline (790/2009)	91-22-5	202-051-6	1B	2		
Salicylic acid (2018/1480)	69-72-7	200-712-3			2	
Silver-zinc zeolite (zeolite, Linde type A, surface modified with silver and zinc ions). [This entry concerns LTA type zeolite (Linde type A) where the surface has been modified with silver and zinc ions containing Ag <sup>+</sup> 0.5% to 6%, Zn <sup>2+</sup> 5% to 16% and possibly phosphorus, NH <sub>4</sub> <sup>+</sup> , Mg <sup>2+</sup> and/or Ca <sup>2+</sup> each < 3%]. (2017/776)	130328-20-0	603-404-0			2	
Silicon carbide fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) (2020/1182)	409-21-2 308076-74-6	206-991-8	1B			
Simazine (ISO); 6-chloro-N,N'-diethyl-1,3,5-triazine-2,4-diamine	122-34-9	204-535-2	2			
Spirodiclofen (ISO); 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl-2,2- dimethylbutyrate (2018/1480)	148477-71-8	604-636-5	1B			2
Spirotetramate (ISO); (5s,8s)-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1- azaspiro[4,5]dec-3-en-4-yl-ethylcarbonate (2015/1221)	203313-25-1	606-523-6			2	2
Spiroxamine (ISO); 8-tert-butyl-1,4-dioxaspiro[4,5]dec-2- ylmethylethylpropylamine (2017/776)	118134-30-8	601-505-4			2	
Strontium chromate	7789-06-2	232-142-6	1B			
Styrene (605/2014)	100-42-5	202-851-5			2	
Styrene oxide	96-09-3	202-476-7	1B			
Sulcotrione (ISO); 2-[2-chloro-4-(methylsulphonyl)benzoyl]cyclohexane-1,3- dione (944/2013)	99105-77-8	619-394-6			2	
Sulphallate (ISO); 2-chlorallyl-N,N-dimethyldithiocarbamate	95-06-7	202-388-9	1B			
Tellurium (2022/692)	13494-80-9	236-813-4			1B Lact.	2
Tellurium dioxide (2022/692)	7446-07-3	231-193-1			1B Lact.	2



Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Tembotrione (ISO); 2-[2-chloro-4-(methylsulphonyl)-3-[(2,2,2-trifluoroethoxy)-methyl]benzoyl]cyclohexane-1,3-dione (2015/1221)	335104-84-2	608-879-8			2	
Tepraloxydim (ISO); (RS)-(EZ)-2-[1-[(2E)-3-chlorallyloxyimino]propyl]-3-hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one (790/2009)	149979-41-9	604-715-4	2		2	2
1,4/5,8-1,4,5,8-Tetraaminoanthraquinone	2475-45-8	219-603-7	1B	---	---	---
Tetraborinate sodium hepta oxide, hydrate Disodium tetraborate, anhydrous Orthoboric acid, sodium salt Disodium tetraborate decahydrate Disodium tetraborate pentahydrate	12267-73-1 1330-43-4 13840-56-7 1303-96-4 12179-04-3	235-541-3 215-540-4 237-560-2 215-540-4 215-540-4			1B	1B
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol; Tetrabromobisphenol-A	# 79-94-7	201-236-9	1B			
5,6,12,13-Tetrachloroanthra(2,1,9-def:6,5,10-d'e'f')diisoquinoline-1,3,8,10(2H, 9H)tetrone	115662-06-1	405-100-1				2
2,3,7,8-Tetrachlorodibenzo-p-dioxine (TRGS 905 No. 4)	1746-01-6	217-122-7	1B*			
1,1,2,2-Tetrachloroethane	79-34-5	201-197-8	2*	2*	---	---
Tetrachloroethene	127-18-4	204-825-9	2	---	2*	---
Tetrachloromethane	56-23-5	200-262-8	2			
Tetrafluoroethylene (2021/849)	116-14-3	204-126-9	1B			
N,N,N',N'-Tetraglycidyl-4,4'-diamino-3,3'-diethyldiphenylmethane	130728-76-6	410-060-3		2		
Tetrahydro-1,3-dimethyl-1H-pyrimidin-2-one; Dimethylpropyleneurea (790/2009)	7226-23-5	230-625-6				2
Tetrahydrofuran (618/2012)	109-99-9	203-726-8	2			
Tetrahydrofurfuryl alcohol; Tetrahydro-2-furyl-methanol (605/2014)	97-99-4	202-625-6			1B	2
(±)-Tetrahydrofurfuryl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)-phenyloxy]propanoate (2018/1480)	200509-41-7	414-200-4	2		2	2
Tetrahydrothiopyran-3-carboxaldehyde	61571-06-0	407-330-8			1B	
Tetrakis(hydroxymethyl)phosphonium chloride; reaction product with urea and distilled hydrogenated C16-18 tallow alkylamine	166242-53-1	422-720-8	2	---		
Tetramethrin (ISO) (2018/1480)	7696-12-0	231-711-6	2			
Acridine orange; N,N,N',N'-tetramethylacridin-3,6-yl-diamine hydrochloride N,N,N',N'-tetramethylacridine-3,6-diamine monohydrochloride, Compound with ZnCl <sub>2</sub>	65-61-2 10127-02-3	200-614-0 233-353-6	---	2*	---	---
2,2'-((3,5',5,5'-Tetramethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(oxyethylene))-bisoxirane (790/2009)	85954-11-6	413-900-7	2			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
N,N,N',N'-Tetramethyl-4,4'-methylenedianiline; 4,4'-methylenebis(N,N-dimethylaniline)	101-61-1	202-959-2	1B			
Tetrasodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]	2602-46-2	220-012-1	1B		2	
Tetranitromethane (TRGS 905 No. 4)	509-14-8	208-094-7	1B*			
Theophylline; 1,3-dimethyl-3,7-dihydro-1H-purin-2,6-dione (2022/692)	58-55-9	200-385-7			1B	
Thiacloprid (ISO); (Z)-3-(6-chloro-3-pyridylmethyl)-1,3-thiazolidin-2-ylidencyanamide; {(2Z)-3-[(6-chloropyridin-3-yl)methyl]-1,3-thiazolidin-2-yliden}cyanamide (2017/776)	111988-49-9	601-147-9	2		1B	1B
Thiamethoxam (ISO); 3-(2-chloro-thiazol-5-ylmethyl)-5-methyl [1,3,5]oxadiazinan-4-yliden-N-nitroamine (2021/849)	153719-23-4	428-650-4			2	2
Thioacetamide	62-55-5	200-541-4	1B			
4,4'-Thiodianiline and its salts	139-65-1	205-370-9	1B			
Thiourea	62-56-6	200-543-5	2		2	
Thiophanate methyl (ISO); dimethyl (1,2-phenylenedicarbamothioyl)biscarbamate; dimethyl 4,4'-(o-phenylene) bis(3-thioallophanate) (2021/849)	23564-05-8	245-740-7	2	2		
Titanium dioxide; [in powder form with at least 1% of particles having an aerodynamic diameter ≤ 10 µm]. (2020/217)	13463-67-7	236-675-5	2 (inhalation)			
o-Toluidine	95-53-4	202-429-0	1B			
p-Toluidine	106-49-0	203-403-1	2	---	---	---
p-Toluidinium chloride	540-23-8	208-740-8	2			
p-Toluidine sulphate	540-25-0	208-741-3	2			
Toluene (790/2009)	108-88-3	203-625-9	---	---	2	---
4-o-Tolylazo-o-toluidine	97-56-3	202-591-2	1B			
m-Tolyldiene diisocyanate	26471-62-5	247-722-4	2			
Tralkoxydim (ISO); 2-[(1E)-ethoxypropanimidoyl]-3-hydroxy-5-mesitylcyclohex-2-en-1-on (605/2014)	87820-88-0	618-075-9	2			
Transfluthrin (ISO); 2,3,5,6-Tetrafluorobenzyl (1R,3S)-3-(2,2-dichlorovinyl)-2,2-dime-thylcyclopropanecarboxylate	# 118712-89-3	405-060-5	2			
Triadimenol (ISO); (1RS,2RS;1RS,2SR)-1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol; α-tert-butyl-β-(4-chlorophenoxy)-1H-1,2,4-triazol-1-ethanol (2017/776)	55219-65-3	259-537-6				1B H360 Lact.

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Triammonium-6-amino-3-((2,5-diethoxy-4-(3-phosphonophenyl)azo)phenyl)azo-4-hydroxy-2-naphthalenesulphonate; diammonium 3-((4-((7-amino-1-hydroxy-3-sulpho-naphthalen-2-yl)azo)-2,5-diethoxyphenyl)azo)benzoate, reaction mass of (790/2009)		438-310-7				2
Triammonium-4-[4-[7-(4-carboxylatoanilino)-1-hydroxy-3-sulphonato-2-naphthylazo]-2,5-dimethoxyphenylazo]benzoate (790/2009)	221354-37-6	432-270-4				2
1,2,4-Triazole (2021/849)	288-88-0	206-022-9			1B	1B
Trileibis(orthophosphate)	7446-27-7	231-205-5			1A	2
Tribromomethane	75-25-2	200-854-6	2*			
2,4,6-Tri- <i>tert</i> -butylphenol (2022/692)	732-26-3	211-989-5			1B	
Tributyl phosphate	126-73-8	204-800-2	2			
Tributyltin compounds (2015/1221)					1B	1B
2,3,4-Trichloro-1-butene (790/2009)	2431-50-7	219-397-9	1B* 2			
1,1,2-Trichloroethane	79-00-5	201-166-9	2	---	---	---
Trichlorethylene	79-01-6	201-167-4	1B	2		
Trichloromethane (944/2013)	67-66-3	200-663-8	1B* 2	2*	2	---
Trichlormethylstannane (944/2013)	993-16-8	213-608-8			2	
N-(Trichloromethylthio)phthalimide (790/2009)	133-07-3	205-088-6	2			
2,4,6-Trichlorophenol	88-06-2	201-795-9	2			
1,2/3-Trichloropropane	96-18-4	202-486-1	1B	2*	---	1B
$\alpha,\alpha,\alpha$ -Trichlorotoluene	98-07-7	202-634-5	1B			
Tridemorph	24602-86-6	246-347-3			1B	
Triethylarsenate	15606-95-8	427-700-2	1A			
Triflumizole (ISO); (1E)-N-[4-chloro-2-(trifluoromethyl)phenyl]-1-(1H-imidazol-1-yl)-2-propoxyethanimine (2016/1179)	68694-11-1	614-708-8			1B	
Trifluoriodomethane	2314-97-8	219-014-5		2		
4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]diphenol; Bisphenol AF	# 1478-61-1	216-036-7				1B
4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyltriphenylphosphonium, salt with 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (1:1)	#					1B

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
4,4'-[2,2,2-Trifluoro-1-(trifluoromethyl)ethylidene]diphenol and benzyl(diethylamino)diphenylphosphonium 4-[1,1,1,3,3,3-hexafluoro-2-(4-hydroxyphenyl)propan-2-yl]phenolate (1:1), reaction mass of	#					1B
Trifluralin (ISO) (contains < 0.5 ppm NPDA); α,α,α-Trifluoro-2,6-dinitro-N, N-dipropyl-p-toluidine (contains < 0,5 ppm NPDA); 2,6-dinitro-N, N-dipropyl-4-trifluoromethylaniline (contains < 0,5 ppm NPDA); N, N-dipropyl-2,6-dinitro-4-trifluoromethylaniline (contains < 0,5 ppm NPDA). (790/2009)	1582-09-8	216-428-8	2			
Triflusalphuron-methyl (2015/1221); methyl 2-[[[4-(dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-yl]carbonyl]sulphamoyl]-3-methylbenzoate	126535-15-7	603-146-9	2			
2,4,5-Trimethylaniline 2,4,5-Trimethylaniline hydrochloride	137-17-7 21436-97-5	205-282-0 -	1B	---	---	---
3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1	201-126-0	2	---	---	---
Trimethylolpropane triacrylate; 2-ethyl-2-[[[1-(oxoallyl)-oxy]-methyl]-1,3-propanediyl]diacrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate (2022/692)	15625-89-5	239-701-3	2			
Trimethyl phosphate	512-56-1	208-144-8	2*	1B*		
Trimethylpropane-tri(3-aziridinylpropanoate); (TAZ) (790/2009)	52234-82-9	257-765-0		2		
Trisodium-[4'-(8-acetylamino-3,6-disulphonato-2-naphthylazo)-4''-(6-benzoylamino-3-sulphonato-2-naphthylazo)-biphenyl-1,3',3'',1'''-tetraolato-O,O',O'',O''']copper(II)	164058-22-4	413-590-3	1B			
Trisodium bis[7-acetamido-2-(4-nitro-2-oxidophenylazo)-3-sulphonato-1-naphtholato]chromate(1-)	106084-79-1	400-810-8		2		
Trisodium nitrile triacetate (790/2009)	5064-31-3	225-768-6	2			
Trinickel-bis(arsenate); Nickel(II) arsenate (790/2009)	13477-70-8	236-771-7	1A			
Trinickel-bis(arsenite) (790/2009)	74646-29-0		1A H350 i			
Trinickel-bis(orthophosphate), see: Nickel hydrogen phosphate						
Trinickel disulphide; nickel subsulphide (2021/849) Heazlewoodite (2021/849)	12035-72-2 12035-71-1	234-829-6 -	1A H350 i	2		
Trinickel tetrasulphide (790/2009)	12137-12-1		1A H350 i			
2,4,7-Trinitrofluoren-9-one	129-79-3	204-965-0	2*			
2,4,6-Trinitrotoluene (and isomers in technical mixtures)	118-96-7	204-289-6	2*			

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
1,3,5-Trioxane	110-88-3	203-812-5	---	---	2	---
1,3,5-Tris(3-aminomethylethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione and oligomer mixture of 3,5-Bis(3-aminomethylphenyl)-1-poly[3, 5-bis(3-aminomethylphenyl)-2,4,6-triazine-1,3,5-(1H,3H,5H)triazin-1-yl]-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione, reaction mass of		421-550-1	1B		1B	
Tris[2-chloro-1-chloromethyl]ethyl]phosphate (618/2012)	13674-87-8	237-159-2	2			
Tris(2-chlorethyl)phosphate (790/2009)	115-96-8	204-118-5	1B* 2	---	---	1B
1,3,5-Tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H, 5H)-trione	59653-74-6	423-400-0		1B		
Tris(2-methoxyethoxy)vinylsilane; 6-(2-methoxyethoxy)-6-vinyl-2,5,7,10-tetraoxa-6-silaundecane (2020/1182)	1067-53-4	213-934-0			1B	1B
N,N',N"-Tris(2-methyl-2,3-epoxypropyl)-perhydro-2,4,6-oxo-1,3,5-triazine (790/2009)	26157-73-3	435-010-8		2		
1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)trione	2451-62-9	219-514-3	---	1B	---	2*
Triticonazole (ISO); (RS)-(E)- 5-(4-chlorobenzylidene)-2,2-dimethyl-1-(1H-1,2,4-triazole- 1-methyl)cyclopentanol (2021/849)	138182-18-0					2
Trixylyl phosphate (618/2012)	25155-23-1	246-677-8				1B
Urethane (INN); Ethyl carbamate	51-79-6	200-123-1	1B			
Valifenalate; Methyl N-(isopropoxycarbonyl)-L-valyl-(3RS)-3-(4-chlorophenyl)-β-alaninate (2022/692)	283159-90-0	608-192-3	2			
Valinamide	20108-78-5	402-840-7				2
Vanadium pentoxide; divanadium pentaoxide (2022/692)	1314-62-1	215-239-8	1B	2	<sup>2</sup> Lact.	2
Vinclozolin (ISO); N-3,5-dichlorophenyl-5-methyl-5-vinyl-1,3-oxazolidin-2,4-dione	50471-44-8	256-599-6	2		1B	1B
Vinyl acetate (944/2013)	108-05-4	203-545-4	2			
9-Vinylcarbazole (790/2009)	1484-13-5	216-055-0	---	2	---	---
Vinyl chloride	75-01-4	200-831-0	1A			
4-Vinylcyclohexene (605/2014)	100-40-3	202-848-9	2	---	---	2*
1-Vinylimidazole (2018/1480)	1072-63-5	214-012-0			1B	
N-Vinyl-2-pyrrolidone	88-12-0	201-800-4	2	---	---	---

Name of substance	CAS number	EC/list number	C	M	R <sub>D</sub>	R <sub>F</sub>
Warfarin (ISO); 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-chromen-2-one (S)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone (R)-4-hydroxy-3-(3-oxo-1-phenylbutyl)-2-benzopyrone (2016/1179)	81-81-2 5543-57-7 5543-58-8	201-377-6 226-907-3 226-908-9			1A	
2,4-Xylidine	95-68-1	202-440-0	2*			
2,6-Xylidine	87-62-7	201-758-7	2	---	---	---
Zinc chromates, including zinc potassium chromate			1A			
Zinc Pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridine-2(1H)- thionato-.kappa.S]zinc (2020/1182)	13463-41-7	236-671-3			1B	
Ziram (ISO); Zinc bis(dimethyl dithiocarbamate)	137-30-4	205-288-3		---		

## Explanatory notes

CAS number Registration number in the Chemical Abstracts Service

EC number EINECS number (registration number of the European Inventory Existing Chemical Commercial Substances) or ELINCS number (registration number of the European List of New Chemical Substances)

C Carcinogenic

M Mutagenic (germ-cell mutagenic)

R Reproductively toxic or reprotoxic, toxic to reproduction

R<sub>D</sub> Harmful to the development of a foetus or embryo

R<sub>F</sub> can pose a risk to fertility or reproductive capacity

1A, 1B, 2 Categories according to Annex I of Regulation (EC) No. 1272/2008  
(see section "Comments on categories")

Lact. Effects on or through lactation

--- Based on the available data, an assignment to categories 1A to 2 according to Annex I of Regulation (EC) No 1272/2008 could not be made (see TRGS 905, supplementary information is provided in the reasoning for the substances at <http://www.baua.de/de/Themen-von-A-Z/Gefahrstoffe/TRGS/Begrundungen-905-906.html>) or the classification has been cancelled by the EU.

\* Ratings marked with an asterisk originate from TRGS 905. These national ratings provided by AGS, the German Hazardous Substances Committee, are intended to provide protection for employees in their workplaces, so that employers can take the required protective measures. An EU legal classification for these substances is being sought. If a substance already has an EU legal classification, this must be indicated when placing it on the market until the substance is reclassified by the EU Commission. In such cases, the AGS rating must be taken into account when specifying the protective measures.

# This substance has been reassessed for its properties.  
(EU Regulation No. 2024/197)

To be on the safe side, we recommend that you also identify substances via CAS or EC numbers, as a substance usually has several substance names (synonyms). Substances covered by group entries are excluded. In such cases, classification is only possible via the substance name.

## **Explanatory notes on the categories (Regulation (EC) No. 1272/2008)**

### **Carcinogenic**

Carc. Known to be or likely to be carcinogenic in humans

1 A substance is classified as a category 1 carcinogen based on epidemiological and/or animal test data. The following sub-classifications are also possible:

1A Substances known to be carcinogenic in humans; classification is mainly based on evidence in humans.

(H350 "May cause cancer" or

H350i "May cause cancer upon inhalation").

1B Substances that are likely to be carcinogenic in humans; classification is mainly based on evidence in animals (H350 or H350i).

Classification into categories 1A and 1B is based on the strength of the evidence combined with additional indications. Such evidence may come either from

- epidemiological studies, establishing a causal link between human exposure to a substance and the development of cancer (known human carcinogen), or
- from animal studies with sufficiently conclusive evidence to establish a carcinogenic effect in animals, so that the substance is likely to be carcinogen in humans.

In addition, upon scientific assessment, it may be justified in specific instances to make a

decision about the likely carcinogenic effect on humans on the basis of studies showing only limited evidence of a carcinogenic effect on humans, combining such studies with limited evidence in laboratory animals.

2 Suspected carcinogenic effect on humans

The classification of a substance in category 2 is based on evidence from studies in humans and/or animals, but not sufficient to classify the substance in category 1A or 1B, on the strength of the evidence and additional indications. Such indications may come either from human studies giving rise to a suspicion of carcinogenic effects or from animal studies giving rise to a suspicion of carcinogenic effects.

(H351 "Suspected of causing cancer").

### **Germ-cell mutagenic**

Muta. Substances known to cause genetic mutations or which should be regarded as causing  
or genetic mutations in human germ cells.  
Mutag.

1 Substances known to cause genetic mutations in human germ cells.

1A Classification in category 1A is based on positive findings from epidemiological studies in humans. Substances that should be regarded as causing genetic mutations in human germ cells.

(H340 "May cause genetic defects").

1B Classification in category 1B is based on

- positive findings from in vivo tests for heritable germ cell mutagenicity in mammals or
- positive findings from in vivo tests for mutagenicity in mammalian somatic cells combined with evidence that the substance has the potential to cause mutations in germ cells. Such supporting evidence may result, for example, from in vivo mutagenicity/genotoxicity tests in germ cells or from demonstrating the ability of the substance or its metabolite(s) to interact with the genetic material of germ cells, or
- positive findings from tests showing mutagenic effects in germ cells of humans but without evidence of transmission to offspring; this would include, for example, an increase in the rate of aneuploidy in the sperm of exposed individuals (H340).



2 Substances that are of concern regarding humans because they can potentially cause heritable mutations in human germ cells.

Classifications in category 2 are based on

- positive findings in mammalian tests and/or, in some cases, in vitro tests obtained from
  - in vivo mammalian somatic cell mutagenicity tests or
  - other in-vivo somatic cell genotoxicity tests supported by positive findings from in-vitro mutagenicity tests.

(H341 “Suspected of causing genetic defects”).

### **Toxic to reproduction (reprotoxic)**

R<sub>F</sub> Can pose a risk to fertility or reproductive capacity

R<sub>D</sub> Harmful to the development of a foetus or embryo

Repr. Substance known or likely to be toxic to reproduction

1 Substances are classified as toxic to reproduction category 1 if they are known to impair sexual function and fertility or development in humans or if there are findings from animal studies, supplemented where possible by further information, which allow the clear assumption that the substance has the capacity to impair human reproduction. The classification of a substance is further differentiated according to whether the classification is predominantly based on findings in humans (category 1A) or in animals (category 1B).

1A Substance known to be toxic to reproduction

Classification of a substance in category 1A is largely based on findings from humans.

(H360F “May impair fertility” and/or

H360D “May harm the unborn child”).

1B Substance likely to be toxic to reproduction

Classification of a substance in category 1B is largely based on data from animal studies. Such data must provide clear evidence of impaired sexual function and fertility and development in the absence of other toxic effects; if they occur together with other toxic effects, the reproductive impairment must not be considered a secondary non-specific consequence of other toxic effects. However, if there is information on the impact mechanism that calls into question the relevance of the effects in humans, then classification in category 2 may be more appropriate (H360F and/or H360D).

2 Substance suspected of being toxic to reproduction

Substances are classified as toxic to reproduction under category 2 if there are findings (possibly supplemented by further information) in humans or laboratory animals that demonstrate impairment of sexual function and fertility or development, but this evidence is not sufficiently conclusive for classification of the substance under category 1. If shortcomings of the study reduce the validity of the evidence, a category 2 classification may be more appropriate. Such effects must have been observed in the absence of other toxic effects, but if they occur together with other toxic effects, the reproductive impairment must not be considered a secondary non-specific consequence of those other effects.

(H361f "Substance suspected of damaging fertility" and/or

H361d "Substance suspected of damaging the unborn child").

**List of carcinogenic activities or processes according to section 3 (2) no. 3 of the German Hazardous Substances Regulation, GefStoffV (TRGS 906) or Directive 2004/37/EC**

- 1 Production of auramine
- 2 Activities or processes that expose workers to carcinogenic polycyclic aromatic hydrocarbons which may be present in pyrolysis products from organic material (e.g. coal soot, coal tar or coal tar pitch). It is acceptable to select benzo[a]pyrene as the reference substance for pyrolysis products containing carcinogenic polycyclic aromatic hydrocarbons.
- 3 Activities or processes where workers are exposed to dust, fumes or mists during roasting or the electrolytic refinement of nickel matte.
- 4 Strong acid processes in the production of isopropyl alcohol
- 5 Activities or processes that expose workers to hardwood dusts (see below)
- 6 Activities or processes that involve employees working in areas where diesel engine emissions are released.  
If the occupational exposure limit (OEL) value for diesel soot particles is observed, then no acute or chronic effects on the health of employees should generally be expected. Generally, therefore, if the OEL for diesel soot particles is observed, then the activity is not carcinogenic under TRGS 906 (see TRGS 554, 2019 edition, no. 3.2 para. 1).
- 7 Activities or processes that expose workers to respirable\*) dusts of crystalline silica in the form of quartz and cristobalite (excluding coal mine dust).  
  
\*) DIN/EN 481 "Workplace Atmospheres – Size Fraction Definitions for Measurement of Airborne Particles", Brussels 1993.
- 8 Work involving dermal exposure to mineral oils previously used in internal combustion engines to lubricate and cool the moving parts of the engine.

## List of some hardwood species according to Annex I No. 5 of Directive 2004/37/EC

Source: Volume 62 of the monograph on the evaluation of cancer risks to humans published by the International Agency for Research on Cancer (IARC): Wood Dust and Formaldehyde, Lyon, 1995.

Hardwoods are in particular:

- African Mahogany (Khaya)
- Afrormosia (*Pericopsis elata*)
- Maple (*Acer*)
- Balsa (*Ochroma*)
- Birch (*Betula*)
- Brazilian rosewood (*Dalbergia nigra*)
- Beech (*Fagus*)
- Ebony (*Diospyros*)
- Oak (*Quercus*)
- Alder (*Alnus*)
- Ash (*Fraxinus*)
- Hickory (*Carya*)
- Iroko (*Chlorophora excelsa*)
- Chestnut (*Castanea*)
- Cowrie pine (*Agathis australis*)
- Cherry (*Prunus*)
- Limba (*Terminalia superba*)
- Lime (*Tilia*)
- Mansonia (*Mansonia*)
- Meranti (*Shorea*)
- Nyaoth (*Palaquium hexandrum*)
- Obeche (*Triplochiton scleroxylon*)
- Rosewood (*Dalbergia*)
- Poplar (*Populus*)

- Plane tree (Platanus)
- Rimu, Red Pine (Dacrydium cupressinum)
- Teak (Tectona grandis)
- Elm (Ulmus)
- Walnut (Juglans)
- Willow (Salix)
- Hornbeam (Carpinus)

### **Implementation periods**

The classifications of Regulation (EU) No 2021/849 have been applicable since 17 December 2022.

The classifications of Regulation (EU) No 2022/692 have been applicable since 23 November 2023.

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