

Occupational agents with respiratory effects according to ACGIH 2012 and / or classified with the H334* (R42 phrase** (allergy or asthma symptoms or breathing difficulties if inhaled) and / or with the H335* (R37)** phrase (may cause respiratory irritation to respiratory system) according to the European Union directives 67/548/EEC ⁽¹⁾, 2001/59/EC ⁽²⁾, 2004/73/EC ⁽³⁾, 2009/2/EC ⁽⁴⁾ or 1272/2008 ⁽⁵⁾

	Chemical name	Synonyms	CAS	ACGIH 2012			European Union directives ^{(1), (2), (3)}				EC Regulation ⁽⁵⁾	
				TWA	STEL	Respiratory effect(s) (TLV basis)	R37 phrase*, R42 phrase* and their combinations with other (respiratory) R phrases*		Further R phrases**			H334* and / or H335*
								Concentrations		Concentrations		
1.	acetaldehyde	ethanal	75-07-0	-	(C 25 ppm) 2012 NIC: 25 ppm	URT irr	⁽¹⁾ 12-36/37-40				H335	
2.	acetic acid ⁽¹⁾ acetic acid ...%		64-19-7	10 ppm	15 ppm	URT irr; pulm func			⁽¹⁾ 10-35 35 34 36/38	C≥90% 25%≤C<90% 10%≤C<25%		
3.	acetic anhydride		108-24-7	1 ppm	3 ppm	URT irr	⁽⁵⁾ 10-20/22-34 34 37/38-41 36	C≥25% 5%≤C<25% 1%≤C<5%			STOT SE 3; H335:C≥5%	

4.	acetone	propan-2-one; propanone	67-64-1	(500 ppm) 2012 NIC: 200 ppm	(750 ppm) 2012 NIC: 500 ppm	(URT irr) 2012 NIC: URT irr			(1) 11-36-66-67		
5.	acetone cyanohydrin, as CN	2-hydroxy-2- methylpropionitr ile; 2-cyanopropan- 2-ol	75-86-5	-	C 5 mg/m ³	URT irr			(5) 26/27/28-50- 53		
6.	acetonitrile	cyanomethane	75-05-8	20 ppm	-	LRT irr			(1) 11-20/21/22- 36		
7.	acetophenone		98-86-2	10 ppm	-	URT irr			(5) 22-36		
8.	acibenzolar-S- methyl	benzo[1,2,3]thia diazole-7- carbothioic acid S-methyl ester	135158-54-2				(2) 36/37/38-43- 50/53				H335
9.	acrolein (2) acrylaldehyde	prop-2-enal	107-02-8	-	C 0.1 ppm	URT irr; pulm edema; pulm emphyse- ma			(2) 11-24/25-26- 34-50		
10.	acrylic acid	prop-2-enoic acid	79-10-7	2 ppm	-	URT irr	(5) 10-20/21/22- 35-50 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%

11.	acrylonitrile		107-13-1	2 ppm	-	LRT irr	⁽⁵⁾ 45-11-23/24/25-37/38-41-43-51/53 23/24/25-20/21/22	C≥1% 0,2%≤C<1%			H335
12.	adipic acid		124-04-9	5 mg/m ³	-	URT irr			⁽¹⁾ 36		
13.	adiponitrile		111-69-3	2 ppm	-	URT & LRT irr					
14.	allyl alcohol		107-18-6	0.5 ppm	-	URT irr	⁽¹⁾ 10-23/24/25-36/37/38-50				H335
15.	allyl bromide		106-95-6	0.1 ppm	0.2 ppm	URT irr					
16.	allyl glycidyl ether	allyl 2,3-epoxypropyl ether; prop-2-en-1-yl 2,3-epoxypropyl ether; AGE	106-92-3	1 ppm	-	URT irr	⁽²⁾ 10-20/22-37/38-40-41-43-52/53-62-68				H335
17.	allyl propyl disulfide		2179-59-1	0.5 ppm	-	URT irr					

18.	aluminum metal and insoluble compounds (1) aluminum powder (pyrophoric)		7429-90-5	1 mg/m ³ (R)	-	pneumococcosis; LRT irr			(1) 15-17		
19.	7-amino-3-((5-carboxymethyl-4-methyl-1,3-thiazol-2-ylthio)methyl)-8-oxo-5-thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid		111298-82-9				(1) 42/43-52/53				H334
20.	2-aminoethanol	ethanolamine	141-43-5				(5) 20/21/22-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
21.	2-amino-propane	isopropylamine	75-31-0	5 ppm	10 ppm	URT irr	(1) 12-36/37/38				H335
22.	ammonia, anhydrous	ammonia	7664-41-7	25 ppm	35 ppm	URT irr	(5) 10-23-34-50				
23.	ammonia ...%		1336-21-6				(5) 34-50 34 36/37/38	C≥10% 5%≤C<10%			H335: C≥5%

24.	ammonium chloride fume ⁽¹⁾ ammonium chloride		12125-02-9	10 mg/m ³	20 mg/m ³	URT irr			⁽¹⁾ 22-36		
25.	ammonium dichromate		7789-09-5				⁽⁵⁾ 45-46-60-61- 2-8-21-25- 26-34- 42/43- 48/23-50/53 34 36/37/38 42/43	C≥10% 5%≤C<10% C≥0,2%			H334 STOT SE 3; H335: C≥5% Resp Sens; H334: C≥0.2%
26.	amylase, α		9000-90-2				⁽¹⁾ 42				H334
27.	amylases with the exception of those specified elsewhere in the Annex I of the directive 67/548/EEC resp in the Annex VI of the Regulation 1272/2008		Index No. 647-016-00-X				⁽¹⁾ 42				H334

28.	antimony and compounds, as Sb		7440-36-0	0.5 mg/m ³	-	URT irr					
29.	antimony hydride	stibine	7803-52-3	0.1 ppm	-	LRT irr					
30.	antimony pentachloride		7647-18-9				(⁵) 34-51/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
31.	antimony trichloride		10025-91-9				(¹) 34-51/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
32.	antimony trioxide, production		1309-64-4	- (^L)	-	lung cancer; pneumococcosis			(¹) 40		
33.	arsenic and inorganic compounds, as As (³)arsenic		7440-38-2	0.01 mg/m ³	-	lung cancer			(⁵) 23/25-50-53		
34.	asbestos, all forms		1332-21-4	0.1 f/cc(^F)	-	pneumococcosis; lung cancer; mesothelioma					

35.	asphalt (bitumen) fume as benzene-soluble aerosol		8052-42-4	0.5 mg/m ³⁽¹⁾	-	URT irr					
36.	C,C'-azodi-(formamide)		123-77-3				⁽⁵⁾ 42-44				H334
37.	barium polysulfides		50864-67-0				⁽²⁾ 31-36/37/38-50				H335
38.	barium sulfate		7727-43-7	10 mg/m ³	-	pneumocniosis					
39.	benomyl (ISO)	methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate	17804-35-2	1mg/m ³⁽¹⁾		URT irr	⁽⁵⁾ 46-60-61-37/38-43-50/53 50-53 51-53 52-53	C≥25% 0,25%≤C<2,5% 0,025%≤C<0,25%			H335
40.	benzene-1,2:4,5-tetracarboxylic dianhydride	benzene-1,2:4,5-tetracarboxylic dianhydride; pyromellitic dianhydride	89-32-7				⁽¹⁾ 41-42/43				H334
41.	benzene-1,2,4-tricarboxylic acid 1,2-anhydride	trimellitic anhydride	552-30-7	0.0005 mg/m ³ (IFV)	0.002 mg/m ³ (IFV)	resp sens	⁽¹⁾ 37-41-42/43				H335 H334

42.	benzophenone-3,3',4,4'-tetracarboxylic dianhydride	4,4'-carbonyl-di(phthalic anhydride)	2421-28-5				(1) 36/37 36/37	C≥1%			H335 STOT SE 3; H335: C≥1%
43.	p-benzoquinone	quinone	106-51-4				(1) 23/25-36/37/38-50				H335
44.	benzoyl chloride		98-88-4	-	C 0.5 ppm	URT irr			(1) 34		
45.	benzoyl peroxide (1) dibenzoyl peroxide		94-36-0	5 mg/m ³	-	URT irr			(1) 2-36-43		
46.	benzyl acetate		140-11-4	10 ppm	-	URT irr					
47.	benzyl chloroformate		501-53-1				(5) 34-50/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
48.	beryllium	ACGIH: beryllium and compounds, as Be	7440-41-7	0.00005 mg/m ^{3(l)}	-	Beryllium sens; chronic beryllium disease	(1) 49-25-26-36/37/38-43-48/23				H335

49.	beryllium compounds with the exception of aluminium beryllium silicates and with those specified elsewhere in the Annex I of the directive 2001/59/EC resp in the Annex VI of the Regulation 1272/2008		Index No 004-002-00-2				⁽²⁾ 49-25-26-36/37/38-43-48/23-51/53				H335
50.	beryllium oxide		1304-56-9				⁽²⁾ 49-25-26-36/37/38-43-48/23				H335
51.	biphenyl	diphenyl	92-52-4	0.2 ppm	-	pulm func	⁽¹⁾ 36/37/38-50/53				H335
52.	o-biphenylol	2-biphenylol; 2-phenylphenol (ISO); 2-hydroxy-biphenyl	90-43-7				⁽¹⁾ 36/37/38-50				H335

53.	bis(D-gluconato-O ¹ ,O ²)nickel		71957-07-8				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
54.	bis (2-dimethyl-aminoethyl)ether	DMAEE	3033-62-3	0.05 ppm	0.15 ppm	URT irr					
55.	2,5-bis-isocyanatomethyl-bicyclo-[2.2.1]heptane		EC-No 615-029-00-X				⁽²⁾ 22-26-34-42/43-52/53			H334	

56.	bismuth telluride undoped as Bi ₂ Te ₃ se-doped, as Bi ₂ Te ₃		1304-82-1	10 mg/m ³ 5 mg/m ³	- -	lung dam					
57.	bisphenol A	4,4'-isopropylidenediphenol	80-05-7				(3) 37-41-43-62				H335
58.	bis(piperidinothiocarbonyl) disulfide		94-37-1				(1) 36/37/38-43				H335
59.	borate compounds, inorganic		1330-43-4 1303-96-4 10043-35-3 12179-04-3	2 mg/m ³⁽¹⁾	6 mg/m ³⁽¹⁾	URT irr					
60.	boron oxide		1303-86-2	10 mg/m ³	-	URT irr					
61.	boron tribromide		10294-33-4	-	C 1 ppm	URT irr			(1) 14-26/28-35		
62.	boron trifluoride		7637-07-2	-	C 1 ppm	LRT irr; pneumonitis			(1) 14-26-35		
63.	bromelain, juice		9001-00-7				(1) 36/37/38-42				H335 H334

64.	bromine		7726-95-6	0.1 ppm	0.2 ppm	URT irr; lung dam; LRT irr			(1) 26-35-50		
65.	bromine pentafluoride		7789-30-2	0.1 ppm	-	URT irr					
66.	bromoform	tribromomethane	75-25-2	0.5 ppm	-	URT irr			(1) 23-36/38-51/53		
67.	bromomethane	methylbromide; monobromomethane	74-83-9	1 ppm	-	URT irr	(1) 23/25-36/37/38-68-48/20-50-59				H335
68.	1-bromopropane	n-propyl bromide	106-94-5				(3) 60-11-36/37/38-48/20-63-67				H335
69.	α -bromotoluene	benzyl bromide	100-39-0				(1) 36/37/38				H335
70.	bronopol (INN)	2-bromo-2-nitropropane-1,3-diol	52-51-7				(2) 21/22-37/38-41-50				H335
71.	butan-1-ol	n-butanol; n-butyl alcohol	71-36-3	20 ppm	-	URT irr	(1) 10-22-37/38-41-67				H335
72.	butan-2-ol	sec-butyl alcohol; sec-butanol	78-92-2	100 ppm	-	URT irr	(1) 10-36/37-67				H335
73.	(\pm)-butan-2-ol		15892-23-6				(1) 10-36/37-67				H335
74.	(R)-butan-2-ol		14898-79-4				(1) 10-36/37-67				H335
75.	(S)-butan-2-ol		4221-99-2				(1) 10-36/37-67				H335

76.	(E)-2-butenal	(E)-crotonaldehyde	123-73-9				(2) 11-24/25-26-37/38-41-48/22-50-68				H335
77.	2-butoxyethanol	EGBE; ethylene glycol monobutyl ether; butyl cellosolve	111-76-2	20 ppm	-	URT irr			(2) 20/21/22-36/38		
78.	n-butyl acetate		123-86-4	150 ppm	200 ppm	URT irr			(1) 10-66-67		
79.	sec-butyl acetate		105-46-4	200 ppm	-	URT irr			(1) 11-66		
80.	tert-butyl acetate		540-88-5	200 ppm	-	URT irr			(1) 11-66		
81.	n-butyl acrylate	acrylic acid, n-butyl ester	141-32-2	2 ppm	-	URT irr	(1) 10-36/37/38-43				H335
82.	tert-butyl acrylate		1663-39-4				(5) 11-20/21/22-37/38-43-52/53				H335
83.	butylamine	n-butylamine	109-73-9	-	C 5 ppm	URT irr	(5) 11-20/21/22-35 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
84.	butylated hydroxytoluene	BHT; 2,6-di-tert-butyl-p-cresol	128-37-0	2 mg/m ³ (FV)	-	URT irr					

85.	tert-butyl (5S,6R,7R)-3-bromomethyl-5,8-dioxo-7-(2-(2-phenylacetamido)-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate		33610-13-8				(1) 42/43-52/53				H334
86.	tert-butyl chromate, as CrO ₃		1189-85-1	-	C 0.1 mg/m ³	LRT irr					
87.	butyl formate		592-84-7				(1) 11-36/37				H335
88.	tert-butyl formate		762-75-4				(1) 11-36/37				H335
89.	butyl glycidyl ether	butyl 2,3-epoxypropyl ether, BGE	2426-08-6				(1) 10-20/22-37-40-43-52/53-68				H335
90.	n-butyl lactate		138-22-7	5 ppm	-	URT irr					
91.	n-butyl mercaptan	butanethiol	109-79-5	0.5 ppm	-	URT irr					
92.	n-butyl methacrylate		97-88-1				(1) 10-36/37/38-43				H335
93.	o-sec-butylphenol		89-72-5	5 ppm	-	URT irr					
94.	p-tert-butyl toluene		98-51-1	1 ppm	-	URT irr					
95.	calcium chromate, as Cr		13765-19-0	0.001 mg/m ³	-	lung cancer			(1) 45-22-50/53		
96.	calcium cyanamide		156-62-7	0.5 mg/m ³	-	URT irr	(1) 22-37-41				H335
97.	calcium hydroxide		1305-62-0	5 mg/m ³	-	URT irr					

98.	calcium hypochlorite		7778-54-3				(5) 8-22-31-34-50 34 37/38-41 36	C≥10% 3%≤C<10% 0,5%≤C<3%			STOT SE 3; H335: C≥3%
99.	calcium oxide		1305-78-8	2 mg/m ³	-	URT irr					
100.	calcium polysulfides		1344-81-6				(2) 31-36/37/38-50				H335
101.	calcium silicate, synthetic nonfibrous		1344-95-2	10 mg/m ^{3(E)}	-	URT irr					
102.	calcium sulfide		20548-54-3				(2) 31-36/37/38-50				H335
103.	camphor, synthetic		76-22-2	2 ppm	3 ppm	URT irr					
104.	ε-caprolactam	caprolactam	105-60-2	5 mg/m ^{3(IFV)}	-	URT irr	(1) 20/22-36/37/38				H335
105.	carbon black		1333-86-4	3 mg/m ^{3(I)}	-	bronchitis					
106.	carbon tetrabromide		558-13-4	0.1 ppm	0.3 ppm	URT irr					
107.	[μ-[carbonato(2-)-O:O']] dihydroxy trinickel		65405-96-1				(1) 49-61-20/22-38-42/43-48/23-68-50/53				

108.	[carbonato(2-)] tetrahydroxytri- nickel		12607-70-4				(1) 49-61-20/22- 38-42/43- 48/23-68- 50/53				
109.	carbonic acid, nickel salt		16337-84-1				(1) 49-61-20/22- 38-42/43- 48/23-68- 50/53				
110.	carbonyl fluoride		353-50-4	2 ppm	5 ppm	LRT irr					
111.	4-(5-(5-[1-(4- carboxyphenyl)- hexahydro- 2,4,6-trioxo- pyrimidin-5- ylidene]penta- 1,3-dienyl)- 1,2,3,4-tetra- hydro-6-hydro- xy-2,4-dioxo- pyrimidin-1- yl)benzoic acid- triethylamine salt		EC No. 426- 900-7				(1) <u>37-52/53</u>				
112.	catechol (1) 1,2- dihydroxybenze- ne	pyrocatechol	120-80-9	5 ppm	-	URT irr			(1) 21/22-36/38		
113.	cellobiohydrolas- e, Exo-		37329-65-0				(1) 42				H334
114.	cellulase		9012-54-8				(1) 42				H334

115.	cellulases with the exception of those specified elsewhere in the Annex I of the directive 67/548/EEC resp in the Annex VI of the Regulation 1272/2008		Index No. 647-004-00-4				(1) 42				H334
116.	cellulose		9004-34-6	10 mg/m ³	-	URT irr					
117.	cesium hydroxide		21351-79-1	2 mg/m ³	-	URT irr					
118.	chlorine		7782-50-5	0.5 ppm	1 ppm	URT irr	(1) 23-36/37/38-50				H335
119.	chlorine dioxide		10049-04-4	0.1 ppm	0.3 ppm	LRT irr; bronchitis	(5) 6-8-26-34-50 50	C≥0,02%			
120.	chlorine dioxide ... %		10049-04-4				(5) 25-34-50 34 36/37/38 36 50	C≥10% 3%≤C<10% 0,3%≤C<3% C≥3%			STOT SE 3; H335: C≥3%
121.	chlorine trifluoride		7790-91-2	-	C 0.1 ppm	URT irr; lung dam					

122.	chloroacet-aldehyde		107-20-0	-	C 1 ppm	URT irr	(5) 24/25-26-34-40-50				STOT SE 3; H335:C≥5%
123.	chloroacetone		78-95-5	-	C 1 ppm	URT irr					
124.	2-chloroaceto-phenone	phenacyl chloride	532-27-4	0.05 ppm	-	URT irr					
125.	chloroacetyl chloride		79-04-9	0.05 ppm	0.15 ppm	URT irr			(1) 14-23/24/25-35-48/23-50		
126.	o-chloro-benzylidene malononitrile		2698-41-1	-	C 0.05 ppm	URT irr					
127.	chlorodiphenyl (54% chlorine)		11097-69-1	0.5 mg/m ³	-	URT irr					
128.	2-chloroethane-phosphonic acid	etephon	16672-87-0				(5) 20/21-34-52/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
129.	2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)-acetamide	acetochlor	34256-82-1				(1) 20-37/38-43-50/53				H335
130.	bis (chloromethyl) ether	oxybis(chloro-methane)	542-88-1	0.001 ppm	-	lung cancer			(5) 45-10-22-24-26 45	C≥0,001%	

131.	chloromethyl methyl ether	methyl chloromethyl ether; monochlorodimethyl ether	107-30-2	- ^(L)	-	lung cancer				⁽¹⁾ 45-11-20/21/22		
132.	1-chloro-1-nitropropane		600-25-9	2 ppm	-	pulm edema				⁽¹⁾ 20/22	C≥5%	
133.	4-chloro- <i>o</i> -cresol	4-chloro-2-methyl phenol	1570-64-5				⁽⁵⁾ 23-35-50 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%				STOT SE 3; H335: C≥1%
134.	4-chlorophenylisocyanate		104-12-1				⁽⁴⁾ 22-26-37/38-41-42-50/53					
135.	chloroprene (stabilized)	2-chlorobuta-1,3-diene; 2-chloro-1,3-butadiene; β-chloroprene	126-99-8	10 ppm	-	URT irr	⁽³⁾ 45-11-20/22-36/37/38-48/20					H335
136.	3-chloropropene	2-chlorobuta-1,3-diene; allyl chloride	107-05-1	1 ppm	2 ppm	URT irr	⁽³⁾ 11-20/21/22-36/37/38-40-48/20-68-50					H335
137.	chlorosulfonic acid		7790-94-5				⁽¹⁾ 14-35-37					H335

138.	chlorothalonil (ISO)	tetrachloroiso-phthalonitrile;	1897-45-6				⁽⁵⁾ 26-37-40-41-43-50/53 50-53 51-53 52-53	C \geq 2,5 0,25% \leq C<2,5% 0,025% \leq C<0,25%			H335
139.	α -chlorotoluene	benzyl chloride	100-44-7	1 ppm	-	URT irr	⁽²⁾ 45-22-23-37/38-41-48/22				H335
140.	o-chlorotoluene ⁽¹⁾ 2-chloro-toluene		95-49-8	50 ppm	-	URT irr			⁽¹⁾ 20-51/53		
141.	chromite ore processing (chromate), as Cr			0.05 mg/m ³	-	lung cancer					

142.	chromium and inorganic compounds, as Cr metal and Cr III compounds water soluble Cr VI compounds insoluble Cr VI compounds		7440-47-3	0.5 mg/m ³	-	URT irr					
				0.05 mg/m ³	-	URT irr					
				0.01 mg/m ³	-	lung cancer					
143.	chromium (VI) trioxide		1333-82-0				⁽⁵⁾ 45-46-9- 24/25-26- 35-42/43- 48/23-62- 50/53 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			H334 STOT SE 3; H335: C≥1%

144.	chromyl dichloride	chromic oxychloride; chromyl chloride	14977-61-8	0.025 ppm	-	URT irr	⁽⁵⁾ 49-46-8-35-43-50/53 35 34 36/37/38 42/43	C≥10% 5%≤C<10% 5%≤C<10% C≥0,2%			STOT SE 3; H335: 0.5%≤C<5%
145.	chymotrypsin		9004-07-3				⁽¹⁾ 36/37/38-42				H335 H334
146.	citral		5392-40-5	5 ppm ^(I-F-V)	-	URT irr			⁽⁵⁾ 38-43		

147.	citric acid, ammonium nickel salt		18283-82-4				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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148.	citric acid, nickel salt		22605-92-1				(4) 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
149.	clopidol		2971-90-6	(10 mg/m ³) 2012 NIC: 3 mg/m ³ (IFV)	-	(URT irr) 2012 NIC: CNS impair					

150.	coal dust anthracite			0.4 mg/m ^{3(R)}	-	lung dam; pulm; pulm fibrosis					
	bituminous or lignite			0.9 mg/m ^{3(R)}	-	lung dam; pulm; pulm fibrosis					
151.	cobalt	cobalt and inorganic compounds, as Co	7440-48-4	0.02 mg/m ³		asthma; pulm func	⁽²⁾ 42/43-53				H334
152.	cobalt acetate		71-48-7				⁽¹⁾ 49-60-42/43- 68-50/53				

153.	cobalt carbonate		513-79-1				⁽¹⁾ 49-60-42/43-68-50/53 49-60-42/43-68-50/53 49-60-42/43-68-51/53 49-60-51/53 49-51/53 49-52/53 49	C≥2,5% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,025%≤C<0,25% % 0,01%≤C<0,025% %			
154.	cobalt carbonyl, as Co		10210-68-1	0.1 mg/m ³	-	pulm edema					
155.	cobalt dichloride		7646-79-9				⁽⁵⁾ 49-22-42/43-50/53 49 22	C≥0,01% C≥2,5%			H334

156.	cobalt hydrocarbonyl, as Co		16842-03-8	0.1 mg/m ³	-	pulm edema; lung dam					
157.	cobalt nitrate		10141-05-6				(¹) 49-60-42/43-68-50/53 49-60-42/43-68-50/53 49-60-42/43-68-51/53 49-60-51/53 49-51/53 49-52/53 49	C≥2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,025%≤C<0,25% 0,01%≤C<0,025%			
158.	cobalt sulfate		10124-43-3				(⁵) 49-22-42/43-50/53 49	 C≥0,01%			H334

159.	copper fume, as Cu dusts and mists, as Cu		7440-50-8	0.2 mg/m ³ 1 mg/m ³	- -	irr; mff					
160.	cotton dust, raw, untreated			0.1 mg/m ³⁽¹⁾	-	byssinosis; bronchitis; pulm func					
161.	cresol, all isomers ⁽¹⁾ mix-cresol o-cresol m-cresol p-cresol		1319-77-3 95-48-7 108-39-4 106-44-5	20 mg/m ^{3(IFV)}	-	URT irr			⁽⁵⁾ for all: 24/25-34 24/25 21/22 34 36/38	C≥5% 1%≤C<5% C≥5% 1%≤C<5%	
162.	crotonaldehyde	2-butenal	4170-30-3	-	C 0.3 ppm	URT irr	⁽²⁾ 11-24/25-26- 37/38-41- 48/22-50-68				H335
163.	cumene		98-82-8	50 ppm	-	URT irr	⁽¹⁾ 10-37-51/53- 65				H335
164.	cyanogen	oxalonitrile	460-19-5	10 ppm	-	LRT irr			⁽¹⁾ 11-23-50/53		
165.	cyanogen chloride		506-77-4	-	C 0.3 ppm	pulm edema; URT irr					

166.	cyclohexane-1,2-dicarboxylic anhydride <i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride <i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride	hexahydrophthalic anhydride, all isomers	85-42-7	-	C 0.005 mg/m ³ (IFV)	resp sens; URT irr	⁽¹⁾ 41-42/43				H334
			13149-00-3								H334
			14166-21-3							H334	
167.	cyclohexanol		108-93-0				⁽⁵⁾ 20/22-37/38				H335
168.	cyclohexanone		108-94-1	20 ppm	50 ppm	URT irr			⁽⁵⁾ 10-20		
169.	cyclohexanone peroxide [> 91% solution]		12262-58-7				⁽¹⁾ 2-22-34				STOT SE 3; H335: C≥5%
							22-34	C≥25%			
							34	10%≤C<25%			
							36/37/38	5%≤C<10%			
170.	cyclohexanone peroxide [≤ 91% solution]		12262-58-7				⁽⁵⁾ 2-22-34				STOT SE 3; H335: C≥5%
							34	C≥10%			
							36/37/38	5%≤C<10%			
171.	cyclohexene		110-83-8	300 ppm	-	URT irr					

172.	cyclohexyl acrylate		3066-71-5				⁽⁵⁾ 37/38-51/53 37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
173.	cyclohexyl-amine		108-91-8	10 ppm	-	URT irr			⁽⁵⁾ 10-21/22-34 34 36/38	C≥10% 2%≤C<10%	
174.	cyclohexylidene hydroperoxide [$> 91\%$ solution]		2699-11-8				⁽¹⁾ 2-22-34 22-34 34 36/37/38	C≥25% 10%≤C<25% 5%≤C<10%			STOT SE 3; H335: C≥5%
175.	cyclohexylidene hydroperoxide [$\leq 91\%$ solution]		2699-11-8				⁽⁵⁾ 2-22-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
176.	cyclopentadiene		542-92-7	75 ppm	-	URT irr					
177.	cyclopentane		287-92-3	600 ppm	-	URT irr			⁽¹⁾ 11-52/53		
178.	cyclopentane-1,2,3,4-tetracarboxylic dianhydride		6053-68-5				⁽¹⁾ 36/37 36/37	C≥1%			H335 STOT SE 3; H335: C≥1%
179.	cyhexatin (ISO)	hydroxytricyclohexylstannane; tri(cyclohexyl)tin hydroxide	13121-70-5	5 mg/m ³	-	URT irr			⁽¹⁾ 20/21/22-50/53		

180.	cypermethrin <i>cis/trans</i> +/- 40/60(<i>RS</i>)- α - cyano-3- phenoxyben- zyl(1 <i>RS</i> ,3 <i>RS</i> ;1 <i>RS</i> ,3 <i>SR</i>)-3- (2,2-di- chlorovinyl)-2,2- dimethylcyclopr opane-carboxyla te		52315-07-8				⁽³⁾ 20/22-37- 50/53			H335
181.	cypermethrin <i>cis/trans</i> +/- 80/20(<i>RS</i>)- α - cyano-3- phenoxy- benzyl(1 <i>RS</i> ; 3 <i>RS</i> ; 1 <i>RS</i> , 3 <i>SR</i>)-3-(2,2- dichlorovinyl)- 2,2- dimethylcyclopr opane-carboxyla te		52315-07-8				⁽³⁾ 22-37/38-43- 50/53			H335
182.	α -cypermethrin		67375-30-8				⁽³⁾ 25-37-48/22- 50/53			H335
183.	2,4-D (ISO)	2,4-dichloro- phenoxyacetic acid	94-75-7	(10 mg/m ³)	-	(URT irr) 2012 NIC: thyroid eff; kidney tubular dam	⁽²⁾ 22-37-41-43- 52/53			H335

184.	diacetone alcohol (¹) 4-hydroxy-4-methylpentan-2-one	4-hydroxy-4-methyl-2-pentanone	123-42-2	50 ppm	-	URT irr			(¹) 36 36	C≥10%	
185.	diacetyl		431-03-8	0.01 ppm	0.02 ppm	lung dam (bronchiolitis obliteranslike illness)					
186.	diamminediisocyanatozinc		EC No 401-610-3				(¹) 22-41-42/43-50				H334
187.	diammonium hexachloroplatinate		16919-58-7				(¹) 25-41-42/43				H334
188.	diammonium nickel bis(sulfate) [2]		15699-18-0				(⁴) 49-61-20/22-42/43-48/23-68-50/53 49-61-20/22-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20-43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			

189.	diammonium nickel hexacyano-ferrate		74195-78-1				(4) 49-42/43-48/23-50/53			
190.	diammonium peroxodisulfate	ammonium persulfate	7727-54-0				(1) 8-22-36/37/38-42/43			H335 H334
191.	diammonium tetrachloro-platinate		13820-41-2				(1) 25-38-41-42/43			H334
192.	diazomethane		334-88-3	0.2 ppm	-	URT irr			(1) 45	
193.	diborane		19287-45-7	0.1 ppm	-	URT irr				
194.	2,2-dibromo-2-nitroethanol		69094-18-4				(5) 2-22-35-40-43-48/22-50/53 22 35 34 36/37/38	C≥10% C≥10% 5%≤C<10% 1%≤C<5%		(*) STOT SE 3; H335: C≥1%
195.	1,2-dibromo-ethane	ethylene dibromide	106-93-4				(5) 45-23/24/25-36/37/38-51/53 23/24/25 20/21/22	C≥1% 0,1%≤C<1%		H335
196.	2-N-dibutyl-aminoethanol		102-81-8	0.5 ppm	-	URT irr				

197.	di-n-butyl ether	dibutyl ether	142-96-1				⁽³⁾ 10-36/37/38-52/53 36/37/38	C≥10%			STOT SE 3; H335: C≥10%
198.	dibutyl phenyl phosphate		2528-36-1	0.3 ppm	-	URT irr					
199.	dibutyl phosphate		107-66-4	5 mg/m ³ (FV)		URT irr					
200.	dibutyl phthalate	DBP	84-74-2	5 mg/m ³	-	URT irr			⁽²⁾ 61-50-62		
201.	dichloroacetic acid		79-43-6	0.5 ppm	-	URT irr			⁽¹⁾ 35-50		
202.	1,2-dichlorobenzene	o-dichlorobenzene	95-50-1	25 ppm	50 ppm	URT irr	⁽⁵⁾ 22-36/37/38-50/53 22	C≥5%			H335
203.	1,4-dichlorobut-2-ene	1,4-dichloro-2-butene	764-41-0	0.005 ppm	-	URT irr	⁽⁵⁾ 45-24/25-26-34-50/53 34 36/37/38 45	C≥10% 5%≤C<10% C≥0,01%			STOT SE 3; H335: C≥5%
204.	1,3-dichloro-5,5-dimethyl hydantoin		118-52-5	0.2 mg/m ³	0.4 mg/m ³	URT irr					
205.	1,1-dichloroethane	ethylidene chloride	75-34-3	100 ppm	-	URT irr	⁽⁵⁾ 11-22-36/37-52/53 22	C≥12.5%			H335

206.	1,2-dichloroethane	ethylene dichloride	107-06-2				(5) 45-11-22-36/37/38				H335
207.	dichloroethyl ether (3) bis(2-chloroethyl) ether		111-44-4	5 ppm	10 ppm	URT irr			(5) 10-26/27/28-40		
208.	2,4-dichloro-5-fluorobenzoylchloride		86393-34-2				(1) 37/38-41-43-52/53				
209.	1,1-dichloro-1-nitroethane		594-72-9	2 ppm	-	URT irr			(1) 23/24/25		
210.	1,3-dichloropropene		542-75-6				(1) 10-20/21-25-36/37/38-43-50/53				H335
211.	2,3-dichloropropene	2,3-dichloropropylene	78-88-6				(5) 11-20/21/22-37/38-68-41-52/53				H335
212.	(Z)-1,3-dichloropropene		10061-01-5				(1) 10-20/21-25-36/37/38-43-50/53				H335
213.	2,2-dichloropropionic acid	dalapon	75-99-0	5 mg/m ³⁽¹⁾	-	URT irr			(1) 22-38-41-52/53		
214.	dichlorotetrafluoroethane		76-14-2	1000 ppm	-	pulm func					
215.	α,α-dichlorotoluene	benzylidene chloride; benzal chloride	98-87-3				(1) 22-23-37/38-40-41				H335
216.	dichloro-1,3,5-triazinetriene	dichloroisocyanuric acid	2782-57-2				(1) 8-22-31-36/37-50/53				H335

217.	diethylamine		109-89-7	5 ppm	15 ppm	URT irr	⁽⁵⁾ 11-20/21/22-35 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
218.	2-diethylamino-ethanol	N,N-diethyl-ethanolamine	100-37-8	2 ppm	-	URT irr	⁽⁵⁾ 10-20/21/22-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
219.	diethylcarbamo-yl chloride		88-10-8				⁽¹⁾ 20/22-36/37/38-40				H335
220.	diethylene triamine ⁽¹⁾ 2,2'-iminodiethylami-ne		111-40-0	1 ppm	-	URT irr			⁽⁵⁾ 21/22-34-43		
221.	di(2-ethylhexyl)-phthalate ⁽²⁾ bis(2-ethylhexyl) phthalate	DEHP; di-sec-octyl phthalate	117-81-7	5mg/m ³	-	LRT irr			⁽²⁾ 60-61		
222.	N,N-diethylhydroxyla-mine (DEHA)		3710-84-7	2012 NIC: 2 ppm	2012 NIC: -	2012 NIC: URT irr					

223.	diethyl phthalate		84-66-2	5mg/m ³	-	URT irr					
224.	difluorodibromo methane		75-61-6	100 ppm	-	URT irr					
225.	6,7-dihydrodi-pyrido[1,2- α :2',1'-c]pyrazinediylum dihydroxide		94021-76-8				(¹) 22-26-36/37/38-43-48/25-50/53				H335
226.	diisopropylamine		108-18-9	5 ppm	-	URT irr	(⁵) 11-20/22-34 34 36/37/38	C \geq 10% 5% \leq C<10%			STOT SE 3; H335: C \geq 5%
227.	dimercury dichloride	mercurous chloride; calomel	10112-91-1				(¹) 22-36/37/38-50/53				H335
228.	di-methylamine		124-40-3	5 ppm	15 ppm	URT irr	(¹) 12-20-37/38-41 20-37/38-41 36	C \geq 5% 0.5% \leq C<5%			H335 STOT SE 3; H335: C \geq 5%
229.	di-methylamine ...%		124-40-3				(⁵) 12-20/22-34 20/22 34 36/37/38	C \geq 15% C \geq 10% 5% \leq C<10%			STOT SE 3; H335: C \geq 5%

230.	2-dimethyl-aminoethanol	N,N-dimethylethanol amine	108-01-0				(5) 10-20/21/22-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
231.	α,α-dimethylbenzyl hydroperoxide	cumene hydroperoxide	80-15-9				(5) 7-21/22-23-34-48/20/22-51/53 34 37/38-41 36/37	C≥10% 3%≤C<10% 1%≤C<3%			STOT SE 3; H335: C<10%
232.	dimethyl carbamoyl chloride		79-44-7	0.005 ppm	-	nasal cancer; URT irr	(5) 45-22-23-36/37/38 45	C≥0,001%			H335
233.	dimethyldichloro silane		75-78-5				(1) 11-36/37/38				H335
234.	dimethyl disulfide		624-92-0	0.5 ppm	-	URT irr					
235.	dimethylethoxy-silane		14857-34-2	0.5 ppm	1.5 ppm	URT irr					
236.	2,6-dimethyl-heptan-4-one	diisobutyl ketone; 2,6-dimethyl-4-heptanone	108-83-8	25 ppm	-	URT irr	(1) 10-37 37	C≥10%			H335 STOT SE 3; H335: C≥10%

237.	dimethyl- hexanoic acid nickel salt		93983-68-7					(4) 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
238.1	1,1-dimethyl- hydrazine (1) N,N- dimethylhydrazine		57-14-7	0.01 ppm	-	URT irr; nasal cancer			(1) 45-11-23/25- 34-51/53			
239.	dimethyl phthalate		131-11-3	5 mg/m ³	-	URT irr						

240.	dimethyl sulfate		77-78-1				(5) 45-25-26-34-43-68 45 68 34 36/37/38	C≥0,01% C≥0,01% C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
241.	dimethyl sulfide		75-18-3	10 ppm	-	URT irr					
242.	dinickel diphosphate		14448-18-1				(4) 49-42/43-48/23-50/53				
243.	dinitrogen tetra-oxide		10544-72-6				(5) 26-34 26 23 20	C≥10% 1%≤C<10% 0,1%≤C<1%			
244.	8,9-dinorborn-5-ene-2,3-dicarboxylic anhydride		123748-85-6				(5) 22-36/37/38 36/37/38	C≥10%			H335 H334 STOT SE 3; H335: C≥10%
245.	1,4-dioxane	diethylene dioxide	123-91-1				(2) 11-19-36/37-40-66				H335
246.	1,1'-dioxybis-cyclohexan-1-ol [$> 91\%$ solution]		2407-94-5				(1) 2-22-34 22-34 34 36/37/38	C≥25% 10%≤C<25% 5%≤C<10%			STOT SE 3; H335: C≥5%

247.	1,1'-dioxybis-cyclohexan-1-ol [\leq 91% solution]		2407-94-5				(5) 2-22-34 34 36/37/38	C \geq 10% 5% \leq C<10%			STOT SE 3; H335: C \geq 5%
248.	1,3-diphenyl-guanidine		102-06-7				(1) 22-36/37/38-51/53-62				H335
249.	diphosphoric acid, nickel(II) salt		19372-20-4				(4) 49-42/43-48/23-50/53				
250.	dipotassium hexachloroplatinate		16921-30-5				(1) 25-41-42/43				H334
251.	dipotassium peroxydisulfate	potassium persulfate	7727-21-1				(1) 8-22-36/37/38-42/43				H335 H334
252.	dipotassium tetrachloroplatinate		10025-99-7				(1) 25-38-41-42/43				H334
253.	dipropylamine		142-84-7				(5) 11-20/21/22-35 35 34 36/37/38	C \geq 10% 5% \leq C<10% 1% \leq C<5%			STOT SE 3; H335: C \geq 1%
254.	dipropyl ketone (1) heptan-4-one	di-n-propyl ketone	123-19-3	50 ppm	-	URT irr				(1) 10-20	
255.	diquat		2764-72-9 6385-62-2	0.5 mg/m ³⁽¹⁾ 0.1 mg ^{3(R)}	- -	LRT irr LRT irr					

256.	diquat dibromide	diquat	85-00-7	0.5 mg/m ^{3(I)} 0.1 mg/m ^{3(R)}	- -	LRT irr LRT irr	⁽¹⁾ 22-26-36/37/38-43-48/25-50/53				H335
257.	diquat dichloride		4032-26-2				⁽¹⁾ 22-26-36/37/38-43-48/25-50/53				H335
258.	disodium hexachloroplatinate		16923-58-3				⁽¹⁾ 25-41-42/43				H334
259.	disodium metasilicate		6834-92-0				⁽¹⁾ 34-37				H335
260.	disodium tetrachloroplatinate		10026-00-3				⁽¹⁾ 25-38-41-42/43				H334
261.	disulfur dichloride	sulfur monochloride	10025-67-9	-	C 1 ppm	URT irr	⁽³⁾ 14-20-25-29-35-50 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
262.	diuron (ISO)	3-(3,4-dichlorophenyl)-1,1-dimethylurea	330-54-1	10 mg/m ³	-	URT irr			⁽²⁾ 22-40-48/22-50/53		
263.	divanadium pentaoxide	vanadium pentoxide; vanadium pentoxide as V ₂ O ₅ (dust or fume)	1314-62-1	0.05 mg/m ^{3(I)}	-	URT & LRT irr	⁽¹⁾ 20/22-37-68-48/23-51/53-63				H335
264.	divinyl benzene		1321-74-0	10 ppm	-	URT irr					

265.	dodecyl mercaptan		112-55-0	0.1 ppm	-	URT irr				
266.	dodecyl methacrylate		142-90-5				⁽⁵⁾ 36/37/38-50/53 36/37/38	C≥10%		H335 STOT SE 3; H335: C≥10%
267.	dodemorph (ISO)	4-cyclododecyl-2,6-dimethylmorpholine	1593-77-7				⁽¹⁾ 36/37/38-51/53			H335
268.	endosulfan	endosulfan (ISO) 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethyl sulphite	115-29-7	0.1 mg/m ³ (IFV)	-	LRT irr			⁽¹⁾ 24/25 – 36 – 50/53	
269.	endothal	7-oxabicyclo-(2,2,1)heptane-2,3-dicarboxylic acid	145-73-3				⁽¹⁾ 21-25-36/37/38			H335
270.	endothal-sodium (ISO)	disodium 7-oxabicyclo(2,2,1)heptane-2,3-dicarboxylate	129-67-9				⁽¹⁾ 21-25-36/37/38			H335
271.	epichlorohydrin ⁽¹⁾ 1-chloro-2,3-epoxypropane		106-89-8	0.5 ppm	-	URT irr			⁽⁵⁾ 45-10-23/24/25-34-43 23/24/25-20/21/22	C≥1% 0,1%≤C<1%

272.	1,2-epoxy-butane		106-88-7				(1) 11-20/21/22-36/37/38-40-52/53				H335
273.	2,3-epoxy-propan-1-ol	glycidol; 2,3-epoxy-1-propanol; oxiranemethanol	556-52-5	2 ppm	-	URT irr	(3) 45-60-21/22-23-36/37/38-68				H335
274.	ethanol	ethyl alcohol	64-17-5	-	1000 ppm	URT irr			(1) 11		
275.	ethyl acetate		141-78-6	400 ppm	-	URT irr			(1) 11-36-66-67		
276.	ethyl acrylate	acrylic acid, ethyl ester	140-88-5	5 ppm	15 ppm	URT irr	(5) 11-20/21/22-36/37/38-43 36/37/38	C≥5%			H335 STOT SE 3; H335:C≥5%
277.	ethylamine		75-04-7				(1) 12-36/37				H335
278.	ethyl benzene (1) ethylbenzene		100-41-4	20 ppm	-	URT irr			(5) 11-20		
279.	ethyl <i>tert</i> -butyl ether	ETBE	637-92-3	5 ppm	-	pulm func					
280.	ethyl 2-cyanoacrylate	ethyl cyanoacrylate	7085-85-0	0.2 ppm	-	URT irr	(1) 36/37/38 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
281.	ethylenediamine	1,2-diaminoethane	107-15-3	10 ppm	-		(5) 10-21/22-34-42/43 34 36/38	C≥10% 2%≤C<10%			H334
282.	ethylene dimethacrylate		97-90-5				(5) 37-43 37	C≥10%			H335 STOT SE 3; H335: C≥10%

283.	ethylene glycol (1) ethanediol		107-21-1	-	C 100 mg/m ^{3(H)}	URT irr			(1) 22		
284.	ethylene oxide	oxirane	75-21-8				(4) 45-46-6-12- 23-36/37/38				H335
285.	ethyleneimine	aziridine	151-56-4	0,05 ppm	0,1 ppm	URT irr			(1) 45-46-11- 26/27/28- 34-51/53		
286.	ethyl ether (1) diethyl ether	ether	60-29-7	400 ppm	500 ppm	URT irr			(1) 12-19-22-66- 67		
287.	ethyl formate	formic acid, ethyl ester	109-94-4	-	100 ppm	URT irr	(1) 11-20/22- 36/37				H335

288.	(2-ethyl-hexanoato-O)(isodecanoato-O)nickel		84852-39-1				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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289.	(2-ethylhexanoato-O)(isooctanoato-O)nickel		85508-45-8				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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290.	(2-ethyl-hexanoato-O)(neo-decanoato-O)nickel		85135-77-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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291.	2-ethylhexanoic acid, nickel salt		7580-31-6				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 C≥25% 2,5%≤C<25% 49-61-42/43-48/23-68-51/53 1%≤C<2,5% 49-61-42/43-48/23-68-52/53 0,5%≤C<1% 0,25%≤C<0,5% 49-61-43-48/20-52/53 0,1%≤C<0,25% 0,01%≤C<0,1% 49-43-48/20-52/53 49-43-48/20 43			
292.	2-ethylhexyl acrylate		103-11-7				⁽³⁾ 37/38-43			H335

293.	ethyl hydrogen sulfate, nickel(II) salt		71720-48-4				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
294.	ethylidene norbornene		16219-75-3	-	C 5 ppm	URT irr					
295.	ethyl 2-(isocyanatosulfonyl)benzoate		77375-79-2				⁽²⁾ 2-14-22-41-42/43-48/22			H334	
296.	ethyl lactate	ethyl DL-lactate	97-64-3				⁽¹⁾ 10-37-41			H335	

297.	ethyl (S)-2-hydroxypropionate ethyl L-lactate; ethyl-(S)-lactate	ethyl l-lactate; ethyl-(S)-lactate	687-47-8				(1) 10-37-41				H335
298.	ethyl mercaptan (1) ethanethiol		75-08-1	0.5 ppm	-	URT irr			(1) 11-20-50/53		
299.	ethyl methacrylate		97-63-2				(1) 11-36/37/38-43				H335
300.	4-ethyl-2-methyl-2-isopentyl-1,3-oxazolidine		137796-06-6				(5) 34-43 34 36/37/38-43	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
301.	N-ethylmorpholine		100-74-3	5 ppm	-	URT irr					

302.	fatty acids, C6-19-branched, nickel salts		91697-41-5				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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303.	fatty acids, C8-18 and C18-unsaturated, nickel salts		84776-45-4				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
304.	fentin acetate (ISO)	triphenyltin acetate	900-95-8				⁽⁵⁾ 24/25-26-37/38-40-41-48/23-50/53-63				H335
305.	fentin hydroxide (ISO)	triphenyltin hydroxide	76-87-9				⁽⁵⁾ 24/25-26-37/38-40-41-48/23-50/53-63				H335

306.	ferbam (ISO)	ferbam, iron tris(dimethylthiocarbamate)	14484-64-1	5 mg/m ³⁽¹⁾	-		(1) 36/37/38-50/53				H335
307.	ferrovanadium dust		12604-58-9	1 mg/m ³	3 mg/m ³	URT & LRT irr					
308.	ficin		9001-33-6				(1) 36/37/38-42				H335 H334
309.	flour dust			0.5 mg/m ³⁽¹⁾	-	asthma; URT irr; bronchitis					
310.	fluorine		7782-41-4	1 ppm	2 ppm	URT irr			(1) 7-26-35		
311.	formaldehyde ...%		50-00-0	-	C 0.3 ppm	URT irr	(5) 23/24/25-34-40-43 23/24/25-34 36/37/38 43	C≥25% 5%≤C<25% C≥0,2%			STOT SE 3; H335:C≥5%
312.	formic acid		64-18-6	5 ppm	10 ppm	URT irr			(1) 35 35 34 36/38	C≥90% 10%≤C<90% 2%≤C<10%	

313.	formic acid, copper nickel salt		68134-59-8				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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315.	2-furaldehyde	furfural	98-01-1	2 ppm	-	URT irr	(5) 21-23/25-36/37-40 23/25 20/22	C≥5% 1%≤C<5%			H335
316.	furfuryl alcohol		98-00-0	10 ppm	15 ppm	URT irr			(1) 20/21/22 20/21/22	C≥5%	
317.	gallium arsenide		1303-00-0	0.0003 mg/m ^{3(R)}	-	LRT irr					
318.	gasoline		86290-81-5	300 ppm	500 ppm	URT irr			(5) 45-46		
319.	glucosidase, β-		9001-22-3				(1) 42				H334
320.	glutaral	glutaraldehyde; activated or inactivated; 1,5-pentanedial	111-30-8	-	C 0.05 ppm	URT irr	(5) 23/25-34-42/43-50 25 22 23 20 34 37/38-41 36/37/38-43 43	C≥50% 2%≤C<50% C≥25% 2%≤C<25% C≥10% 2%≤C<10% 0,5%≤C<2% C≥0,5%			H334 STOT SE 3; H335:C≥0.5%

321.	(glycerin mist)		56-81-5	(10 mg/m ³) 2012 NIC: withdraw adopted documentatio n and TLV	(-)	(URT irr)					
322.	glyoxal ⁽³⁾ glyoxal ...%	ethandial; ethandial ...%	107-22-2	0.1 mg/m ³ (IFV)	-	URT irr			⁽³⁾ 20-36/38-43- 68 20 36/38	C≥10% C≥10%	
323.	grain dust (oat, wheat, barley)			4 mg/m ³	-	bronchitis; URT irr; pulm func					
324.	graphite (all forms except graphite fibers)		7782-42-5	2 mg/m ³ (R)	-	pneumoco niosis					
325.	guazatine		13516-27-3				⁽³⁾ 21/22-26- 37/38-41- 50/53				
326.	guazatine (ISO)		108173-90-6								H335
327.	hafnium and compounds, as Hf		7440-58-6	0.5 mg/m ³	-	URT irr					

328.	heptane; all isomers ⁽¹⁾ heptane [and isomers]	n- heptane	142-82-5 590-35-2 565-59-3 108-08-7 591-76-4 589-34-4	400 ppm	500 ppm	URT irr			⁽¹⁾ 11-38-50/53-65-67		
329.	1,4,5,6,7,7-hexachlorobicyclo[2,2,1]hept-5-ene-2,3-dicarboxylic anhydride		115-27-5				⁽¹⁾ 36/37/38 36/37/38	C≥1%			H335 STOT SE 3; H335: C≥1%
330.	hexachlorocyclopentadiene		77-47-4	0.01 ppm	-	URT irr			⁽¹⁾ 22-24-26-34-50/53		
331.	hexachloroplatinates with the exception of those specified elsewhere in the Annex I of the directive 2001/59/EC resp in the Annex VI of the Regulation 1272/2008		Index No. 078-005-00-2				⁽²⁾ 25-41-42/43				H334
332.	hexachloroplatinic acid		16941-12-1				⁽¹⁾ 25-34-42/43				H334
333.	hexafluoropropene	hexafluoropropylene	116-15-4				⁽¹⁾ 20-37				H335

334.	(2 <i>R</i> ,6 <i>aS</i> ,12 <i>aS</i>)-1,2,6,6 <i>a</i> ,12,12 <i>a</i> -hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4- <i>b</i>]furo[2,3- <i>h</i>]chromen-6-one	rotenone (commercial)	83-79-4	5 mg/m ³	-	URT irr	⁽¹⁾ 25-36/37/38-50/53				H335
335.	hexahydromethylphthalic anhydride		25550-51-0				⁽¹⁾ 41-42/43				H334
336.	hexahydro-1-methylphthalic anhydride		48122-14-1				⁽¹⁾ 41-42/43				H334
337.	hexahydro-3-methylphthalic anhydride		57110-29-9				⁽¹⁾ 41-42/43				H334
338.	hexahydro-4-methylphthalic anhydride		19438-60-9				⁽¹⁾ 41-42/43				H334
339.	hexamethylenediamine	1,6-hexanediamine	124-09-4	0.5 ppm	-	URT irr	⁽¹⁾ 21/22-34-37				H335
340.	hexamethylene diisocyanate		822-06-0	0.005 ppm	-	URT irr; resp sens	⁽⁵⁾ 23-36/37/38-42/43 23 20 42	C≥2% 0,5%≤C<2% C≥0,5%			H335 H334 (*) resp sens 1; H334: C≥0.5%

341.	hexamethyl phosphoramidate (2) hexamethylphosphoric triamide		680-31-9	-	-	URT cancer			(5) 45-46 45	C≥0.01%	
342.	hexane, other isomers, other than n-hexane		75-83-2 79-29-8 107-83-5 96-14-0	500 ppm	1000 ppm	URT irr					
343.	hexasodium 6,13-dichloro-3,10-bis((4-(2,5-disulfonatoanilino)-6-fluoro-1,3,5-triazin-2-ylamino)prop-3-ylamino)-5,12-dioxo-7,14-diazapentacene-4,11-disulfonate		85153-92-0				(1) 42/43				H334
344.	sec-hexyl acetate		108-84-9	50 ppm	-	URT irr					
345.	hexyl acrylate		2499-95-8				(1) 36/37/38-43-51/53				H335
346.	hexylene glycol (1) 2-methylpentane-2,4-diol		107-41-5	-	C 25 ppm	URT irr			(1) 36/38 36/38	C≥10%	

347.	hydrazine		302-01-2	0.01 ppm	-	URT cancer			⁽⁵⁾ 45-10- 23/24/25- 34-43-50/53 34 36/38	C \geq 10% 3% \leq C<10%	
348.	hydrobromic acid ... %		Index No 035- 002-01-8				⁽⁵⁾ 34-37 34-37 36/38 37	C \geq 40% 10% \leq C<40% C \geq 10%		H335 STOT SE 3; H335: C \geq 10%	
349.	hydrochloric acid ... %		Index No 017- 002-01-X				⁽¹⁾ 34-37 34-37 36/37/38	C \geq 25% 10% \leq C<25%		H335 STOT SE 3; H335: C \geq 10%	
350.	hydrofluoric acid ...%		Index No 009- 003-00-1				⁽¹⁾ 26/27/28-35 26/27/28-35 23/24/25-34 20/21/22- 36 ¹	C \geq 7% 1% \leq C<7% 0,1% \leq C<1%			
351.	hydrogen bromide		10035-10-6	-	C 2 ppm	URT irr	⁽¹⁾ 35-37				H335
352.	hydrogen chloride		7647-01-0	-	C 2 ppm	URT irr		⁽⁵⁾ 23-35			

¹ in the German version of the EC Directive (EC¹): concentrations: C \geq 7%: 26/27/28-35; 1% \leq C<7%: 23/24/25-34; 0,1% \leq C<1%: 20/21/22-36/37/38

353.	hydrogen cyanide and cyanide salts, as CN					URT irr				
	hydrogen cyanide (3) hydrogen cyanide ...%	hydrocyanic acid; hydrocyanic acid ... %	74-90-8	-	C 4.7 ppm				(5) 12-50/53	
	(2) calcium cyanide potassium cyanide sodium cyanide	cyanide salts								
			592-01-8	-	C 5 mg/m ³				(5) 28-32-50/53	
			151-50-8	-	C 5 mg/m ³					
			143-33-9	-	C 5 mg/m ³					

354.	hydrogen fluoride, as F		7664-39-3	0.5 ppm	C 2 ppm	URT & LRT irr			(1) 26/27/28-35		
355.	hydrogen iodide		10034-85-2				(1) 35 35 34 36/37/38	C≥10% 0,2%≤C<10% 0,02%≤C<0,2%			STOT SE 3; H335: C≥0.02%
356.	hydrogen peroxide solution ... %	hydrogen peroxide	7722-84-1	1 ppm	-	URT irr	(5) 5-8-20/22-35 20 22 35 34 37/38 41 36	C≥50% C≥8% C≥70% 50%≤C<70% 35%≤C<50% 8%≤C<50% 5%≤C<8%			H335: C≥35%
357.	hydrogen selenide, as Se		7783-07-5	0.05 ppm	-	URT irr					
358.	hydrogen sulfide		7783-06-4	1 ppm	5 ppm	URT irr			(3) 12-26-50		
359.	1-hydroperoxy-cyclohexyl [> 91% solution]	1-hydroxy-cyclohexyl peroxide	78-18-2				(5) 2-22-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%

360.	1-hydroperoxy-cyclohexyl [\leq 91% solution]	1-hydroxy-cyclohexyl peroxide	78-18-2					⁽⁵⁾ 2-22-34 34 36/37/38	C \geq 10% 5% \leq C<10%			STOT SE 3; H335: C \geq 5%
361.	hydroxydisulfito platinum(II) acid		61420-92-6					⁽⁴⁾ 22-35-42/43-48/20/21/22-52/53				
362.	hydroxylamine		7803-49-8					⁽¹⁾ 5-22-37/38-41-43-48/22-50				H335
363.	2-hydroxypropyl acrylate		999-61-1	0.5 ppm	-	URT irr				⁽⁵⁾ 23/24/25-34-43 23/24/25 20/21/22 43	C \geq 2% 0,2% \leq C<2% C \geq 0,2%	
364.	indium and compounds, as In		7440-74-6	0.1 mg/m ³	-	pulm edema; pneumonitis						
365.	iodine and iodides iodine iodides		7553-56-2	0.01 ppm ^(IFV) 0.01 ppm ^(IFV)	0.1 ppm ^(V) -	URT irr URT irr				⁽¹⁾ 20/21-50		
366.	iron oxide		1309-37-1	5 mg/m ^{3(R)}	-	pneumococcosis						

367.	iron pentacarbonyl, as Fe		13463-40-6	0.1 ppm	0.2 ppm	pulm edema					
368.	iron salts, soluble, as Fe			1 mg/m ³	-	URT irr					
369.	isoamyl alcohol		123-51-3	100 ppm	125 ppm	URT irr					
370.	isobutyl acetate		110-19-0	150 ppm	-	URT irr			(1) 11-66		
371.	isobutyl formate		542-55-2				(1) 11-36/37				H335
372.	isobutyl methacrylate		97-86-9				(5) 10-36/37/38-43-50				H335
373.	o-(p-isocyanatobenzyl)phenyl isocyanate	diphenylmethane-2,4-diisocyanate	5873-54-1				(5) 20-36/37/38-42/43 36/37/38 42	C≥5% C≥0,1%			H335 H334 STOT SE 3; H335: C≥5% resp sens 1; H334: C≥0.1%
374.	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	isophorone diisocyanate	4098-71-9	0.005 ppm	-	resp sens	(5) 23-36/37/38-42/43-51/53 23 20 42/43	C≥2% 0,5%≤C<2% C≥0,5%			H335 H334 (*) resp sens 1 H334: C≥0.5%
375.	2-(isocyanatosulfonylmethyl)benzoic acid methyl ester	methyl 2-(isocyanatosulfonylmethyl)benzoate	83056-32-0				(1) 10-14-20-41-42-48/22-68				H334

376.	4-isocyanat-sulfonyltoluene	tosyl isocyanate	4083-64-1				(5) 14-36/37/38-42 36/37/38	C≥5%			H335 H334 STOT SE 3; H335: C≥5% H335: C≥5%
377.	(isodecanoato-O)(isononanoato-O)nickel		84852-36-8				(4) 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
							43				

378.	(isodecanoato-O)(isooctanoato-O)nickel		85166-19-4				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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379.	(isononanoato-O)(isooctanoato-O)nickel		85508-46-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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380.	(isononanoato-O)(neodecanoato-O)nickel		85551-28-6				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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381.	(isooctanoato-O)(neodecanoato-O)nickel		84852-35-7				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
382.	isooctyl acrylate		29590-42-9				⁽⁵⁾ 36/37/38-50/53 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
383.	isooctyl alcohol		26952-21-6	50 ppm	-	URT irr					
384.	isopentyl formate		110-45-2				⁽¹⁾ 10-36/37				H335
385.	isopropyl acetate		108-21-4	100 ppm	200 ppm	URT irr			⁽¹⁾ 11-36-66-67		

386.	isopropyl chloroacetate		105-48-6				(1) 10-25-36/37/38				H335
387.	isopropyl ether (1) diisopropyl ether		108-20-3	250 ppm	310 ppm	URT irr			(1) 11-19-66-67		
388.	isopropyl formate		625-55-8				(1) 11-36/37-67				H335
389.	isopropyl glycidyl ether	IGE	4016-14-2	50 ppm	75 ppm	URT irr					
390.	kaolin		1332-58-7	2 mg/m ^{3(E,R)}	-	pneumoconiosis					
391.	kerosene / jet fuels, as total hydrocarbon vapor (1) CAS (1): kerosine (petroleum) (1) CAS (2): kerosine (petroleum), hydrodesulfurized	straight run kerosine; kerosine - unspecified	(1) 8008-20-6 (2) 64742-81-0	200 mg/m ^{3(P)}	-	URT irr			(5) 65		
392.	ketene		463-51-4	0.5 ppm	1,5 ppm	URT irr; pulm edema					
393.	laccase		80498-15-3				(4) 42				
394.	lithium hydride		7580-67-8	0.025 mg/m ³	-	URT irr					
395.	maleic acid		110-16-7				(5) 22-36/37/38				H335
396.	maleic anhydride		108-31-6	0.01 mg/m ^{3(IFV)}	-	resp sens	(1) 22-34-42/43				H334
397.	mancozeb		8018-01-7				(1) 37-43				H335

398.	maneb		12427-38-2				(1) 37-43				H335
399.	mecrilate	methyl 2-cyanoacrylate	137-05-3	0.2 ppm	-	URT irr	(1) 36/37/38 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
400.	8-p-menthyl hydroperoxide	p-menthane hydroperoxide	80-47-7				(5) 7-20-34 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
401.	mesitylene	1,3,5-trimethylbenzene	108-67-8				(5) 10-37-51/53 37	C≥25%			H335 STOT SE 3; H335: C≥25%
402.	mesityl oxide (1) 4-methylpent-3-en-2-one		141-79-7	15 ppm	25 ppm	URT irr			(1) 10-20/21/22 20/21/22	C≥5%	
403.	methacrylic acid	2-methylpropenoic acid	79-41-4				(5) 21/22-35 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
404.	methenamine	hexamethylenetetramine	100-97-0				(1) 11-42/43				H334
405.	methoxyacetic acid		625-45-6				(5) 60-61-22-34 34 36/37/38	C≥10% 5%≥C<10%			STOT SE 3; H335: C≥5%

406.	(2-methoxy-methylethoxy)propanol	bis-(2-methoxypropyl) ether; dipropylene glycol methyl ether; DPGME	34590-94-8	100 ppm	150 ppm	URT irr					
407.	1-methoxy2-propanol		107-98-2	(100 ppm) 2012 NIC: 50 ppm	(150 ppm) 2012 NIC: 100 ppm	(eye irr; CNS impair) 2012 NIC: URT irr			⁽⁵⁾ 10		
408.	2-methoxy-propanol		1589-47-5				⁽¹⁾ 61-10-37/38-41				H335
409.	2-methoxy-propyl acetate		70657-70-4				⁽¹⁾ 61-10-37				H335
410.	methyl acetate		79-20-9	200 ppm	250 ppm	URT irr			⁽¹⁾ 11-36-66-67		
411.	methyl acrylate	methyl propenoate; acrylic acid, methyl ester	96-33-3	2 ppm	-	URT irr	⁽¹⁾ 11-20/21/22-36/37/38-43				H335
412.	2-methylamino-ethanol	N-methyl-2-amino ethanol; N-methyl-ethanolamine; N-methyl-2-ethanolamine; 2-(methylamino)-ethanol	109-83-1				⁽⁵⁾ 21/22-34 34 36/37/38	C≥10%C 5%≤C<10%			STOT SE 3; H335: C≥5%
413.	2-methylbutan-2-ol	tert-pentanol	75-85-4				⁽³⁾ 11-20-37/38				H335
414.	2-methylbutyl formate		35073-27-9				⁽¹⁾ 10-36/37				H335
415.	methyl chloroacetate		96-34-4				⁽¹⁾ 10-23/25-37/38-41				H335

416.	methylcyclohexane		108-87-2	400 ppm	-	URT irr			(1) 11-38-51/53-65-67		
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417.	methylcyclohexanol		25639-42-3	50 ppm	-	URT irr					
418.	o-methylcyclohexanone (¹) 2-methylcyclohexanone		583-60-8	50 ppm	75 ppm	URT irr			(⁵) 10-20		
419.	2-methylcyclopentadienyl manganese tricarbonyl, as Mn		12108-13-3	0.2 mg/m ³	-	lung					
420.	4,4'-methylene bis(3-chloro-2,6-diethylphenylisocyanate)		EC No 420-530-1				(⁴) 42/43-53				
421.	4,4'-methylene-di(cyclohexylisocyanate)	dicyclohexylmethane 4,4'-diisocyanate; 4,4'-methylene-bis(cyclohexylisocyanate)	5124-30-1	0.005 ppm	-	resp sens; LRT irr	(⁵) 23-36/37/38-42/43 23 42/43 20	C≥2% C≥0,5% 0,5%≤C<2%			H335 H334 (*) resp sens 1; H334: C≥0.5%
422.	methylenediphenyl diisocyanate		26447-40-5				(⁵) 20-36/37/38-42/43 36/37/38 42	C≥5% C≥0,1%			H335 H334 STOT SE 3; H335: C≥5% resp sens 1; H334: C≥0.1%
423.	2,2'-methylene-diphenyl diisocyanate	diphenylmethane-2,2'-diisocyanate; MDI(2,2')	2536-05-2				(⁵) 20-36/37/38-42/43 36/37/38 42	C≥5% C≥0,1%			H335 H334 STOT SE 3; H335: C≥5% resp sens 1; H334: C≥0.1%

424.	4,4'-methylene-diphenyl diisocyanate	diphenylmethane-4,4'-diisocyanate; MDI; methylene bisphenyl isocyanate	101-68-8	0.005 ppm	-	resp sens	⁽⁵⁾ 20-36/37/38-42/43 36/37/38 42	C≥5% C≥0,1%			H335 H334 STOT SE 3; H335: C≥5% resp sens 1; H334: C≥0.1%
425.	N,N''-(methylenedi-4,1-phenylene)bis-[N'-octyl]urea		EC No 445-760-8				⁽⁴⁾ 41-42-50/53 36-42-50/53 42-50/53 50/53 51/53 52/53	5%≤C<10% 1%≤C<5% 0,25%≤C<1% 0,025%≤C<0,25% 0,0025%≤C<0,025%			
426.	(1-methyl-1,2-ethanediyl)bis[oxymethyl-2,1-ethanediyl] diacrylate		42978-66-5				⁽⁵⁾ 36/37/38-43-51/53 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
427.	methyl ethyl ketone ⁽¹⁾ butanone	MEK; 2-butanone; ethyl methyl ketone	78-93-3	200 ppm	300 ppm	URT irr			⁽¹⁾ 11-36-66-67		
428.	methyl formate	formic acid, methyl ester	107-31-3	100 ppm	150 ppm	URT & LRT irr	⁽¹⁾ 12-20/22-36/37				H335
429.	5-methylheptan-3-one	5-methyl-3-heptanone; ethyl amyl ketone	541-85-5				⁽¹⁾ 10-36/37 36/37	C≥10%			H335 STOT SE 3; H335:C≥10%
430.	methyl hydrazine		60-34-4	0.01 ppm	-	URT irr; lung cancer					
431.	methyl iodide	iodomethane	74-88-4				⁽¹⁾ 21-23/25-37/38-40				H335

432.	methyl isoamyl ketone ⁽¹⁾ 5-methylhexan-2-one	isoamyl methyl ketone	110-12-3	(50 ppm) 2012 NIC: 20 ppm	(-) 2012 NIC: 50 ppm	(URT irr) 2012 NIC: URT irr			⁽¹⁾ 10-20		
433.	methyl isocyanate		624-83-9	0.02 ppm	-	URT irr	⁽⁵⁾ 12-24/25-26-37/38-41-42/43-63				H335 H334
434.	methyl 3-isocyanatosulfonyl-2-thiophene-carboxylate		79277-18-2				⁽¹⁾ 2-14-42/43-48/22				H334
435.	methyl lactate		547-64-8				⁽¹⁾ 10-36/37				H335
436.	methyl (R)-lactate		17392-83-5				⁽¹⁾ 10-36/37				H335
437.	methyl (s)-(-)-lactate		27871-49-4				⁽¹⁾ 10-36/37				H335
438.	methyl(±)-lactate		2155-30-8				⁽¹⁾ 10-36/37				H335
439.	methyl methacrylate	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methacrylic acid, methyl ester	80-62-6	50 ppm	100 ppm	URT irr; pulm edema	⁽²⁾ 11-37/38-43				H335
440.	4-methyl-N-(methylsulfonyl)benzenesulfonamide		14653-91-9				⁽³⁾ 22-37-41				H335
441.	1-methyl naphthalene		90-12-0	0.5 ppm	-	LRT irr; lung dam					
442.	2-methyl naphthalene		91-57-6	0.5 ppm	-	LRT irr; lung dam					

443.	4-methyl-pentan-2-ol	methyl isobutyl carbinol; 4-methyl-2-pentanol; methyl amyl alcohol	108-11-2	25 ppm	40 ppm	URT irr	⁽¹⁾ 10-37 37	C≥25%			H335 STOT SE 3; H335: C≥25%
444.	4-methyl-pentan-2-one	isobutyl methyl ketone; hexone; methyl isobutyl ketone	108-10-1	20 ppm	75 ppm	URT irr	⁽¹⁾ 11-20-36/37- 66				H335
445.	2-methyl-m-phenylene diisocyanate	toluene-2,6-di-isocyanate	91-08-7	(0.005 ppm) 2012 NIC: 0.001 ppm ^(IFV)	(0.02 ppm) 2012 NIC: 0.003 ppm ^(IFV)	(resp sens; asthma) 2012 NIC: asthma	⁽⁵⁾ 26-36/37/38- 40-42/43- 52/53 42	C≥0,1%			H335 H334 resp sens 1; H334: C≥0.1%
446.	4-methyl-m-phenylene diisocyanate	toluene-2,4-di-isocyanate; TDI	584-84-9	(0.005 ppm) 2012 NIC: 0.001 ppm ^(IFV)	(0.02 ppm) 2012 NIC: 0.003 ppm ^(IFV)	(resp sens; asthma) 2012 NIC: asthma	⁽⁵⁾ 26-36/37/38- 40-42/43- 52/53 42	C≥0,1%			H335 H334 resp sens 1; H334: C≥0.1%
447.	2-methyl-propan-1-ol	iso-butanol	78-83-1				⁽¹⁾ 10-37/38-41- 67				H335
448.	2-methyl-propan-2-ol	tert-butyl alcohol	75-65-0						⁽⁵⁾ 11-20		
449.	methyl propyl ketone	2-pentanone	107-87-9	-	150 ppm	pulm func					
450.	2-methyl-pyridine	2-picoline	109-06-8				⁽⁵⁾ 10-20/21/22- 36/37				H335
451.	4-methyl-pyridine	4-picoline	108-89-4				⁽¹⁾ 10-20/22-24- 36/37/38				H335
452.	N-methyl-2-pyrrolidone	1-methyl-2-pyrrolidone	872-50-4						⁽⁵⁾ 36/38	C≥10%	
453.	methyl silicate		681-84-5	1 ppm	-	URT irr					
454.	methyl vinyl ketone	3-buten-2-one	78-94-4	-	C 0.2 ppm	URT irr					

455.	mica		12001-26-2	3 mg/m ^{3(R)}	-	pneumoco- niosis					
456.	mineral oil excluding metal working fluids pure, highly & severely refined poorly and mildly refined			0.5 mg/m ^{3(l)}	-	URT irr					
				-(L)	-						
457.	molybdenum, as Mo soluble compound s metal and insoluble compound s		7439-98-7	0.5 mg/m ^{3(R)}	-	LRT irr					
				10 mg/m ^{3(l)}	-						
				3 mg/m ^{3(R)}	-						
458.	molybdenum nickel hydroxide oxide phosphate		68130-36-9				⁽⁴⁾ 49-42/43- 48/23-50/53				
459.	molybdenum tri- oxide		1313-27-5				⁽¹⁾ 36/37- 48/20/22				H335

460.	monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid with the exception of those specified elsewhere in the Annex I of the directive 2004/73/EC resp in the Annex VI of the Regulation 1272/2008		Index No 607-133-00-9				⁽⁵⁾ 36/37/38-51/53 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
461.	monoalkyl or monoaryl or monoalkylaryl esters of methacrylic acid with the exception of those specified elsewhere in the Annex I of the directive 2001/59/EC resp in the Annex VI of the Regulation 1272/2008		Index No 607-134-00-4				⁽²⁾ 36/37/38 36/37/38	C≥10%			H335 STOT SE 3; H335: C≥10%
462.	monochloroacetic acid ⁽¹⁾ chloroacetic acid		79-11-8	0.5 ppm ^(IFV)	-	URT irr			⁽¹⁾ 25-34-50		
463.	mono-methylamine	methylamine	74-89-5	5 ppm	15 ppm	URT irr	⁽¹⁾ 12-20-37/38-41 20-37/38-41 36	C≥5% 0,5%≤C<5%			H335 STOT SE 3; H335: C≥5%

464.	mono-methylamine ...%		74-89-5				⁽⁵⁾ 12-20/22-34 20/22 34 36/37/38	C≥15% C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
465.	morfamquat (ISO)	1,1'-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4'-bipyridilium ion	7411-47-4				⁽¹⁾ 22-36/37/38-52-53				H335
466.	morfamquat dichloride		4636-83-3				⁽⁵⁾ 22-36/37/38-52/53				H335
467.	morfamquat sulfate		29873-36-7				⁽¹⁾ 22-36/37/38-52-53				H335
468.	morpholine		110-91-8	20 ppm	-	URT irr			⁽¹⁾ 10-20/21/22-34 34 36/38	C≥10% 1%≤C<10%	
469.	nabam (ISO)	disodium ethylenebis(N,N'-dithiocarbamate)	142-59-6				⁽¹⁾ 22-37-43-50/53				H335
470.	naphthalene		91-20-3	(10 ppm) 2012 NIC: 5 ppm	(15 ppm) 2012 NIC: -	(URT irr) 2012 NIC: URT irr			⁽³⁾ 22-40-50/53		

471.	2,7-naphthalene-disulfonic acid, nickel(II) salt		72319-19-8				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 C≥25% 49-61-42/43-48/23-68-50/53 2,5%≤C<25% 49-61-42/43-48/23-68-51/53 1%≤C<2,5% 49-61-42/43-48/23-68-52/53 0,5%≤C<1% 0,25%≤C<0,5% 49-61-43-48/20-52/53 0,1%≤C<0,25% 0,01%≤C<0,1% 49-43-48/20-52/53 49-43-48/20 43			
472.	1-naphthol		90-15-3				⁽¹⁾ 21/22-37/38-41			H335
473.	1,5-naphthylene diisocyanate		3173-72-6				⁽¹⁾ 20-36/37/38-42-52/53			H335 H334
474.	natural rubber latex, as inhalable allergenic proteins		9006-04-6	0.0001 mg/m ^{3(l)}	-	Resp sens				

475.	neodecanoic acid, nickel salt		51818-56-5				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20	C \geq 25% 2,5% \leq C<25% 1% \leq C<2,5% 0,5% \leq C<1% 0,25% \leq C<0,5% 0,1% \leq C<0,25% 0,01% \leq C<0,1%			
476.	neodecanoyl chloride		40292-82-8				⁽⁵⁾ 22-26-34 34 36/37/38	C \geq 10% 5% \leq C<10%			STOT SE 3; H335: C \geq 5%

477.	nickel acetate		14998-37-9				⁽⁴⁾ 49-61-20/22-42/43-48/23-68-50/53 49-61-20/22-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			85
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478.	nickel, as Ni								(1) 40-43		
	elemental		7440-02-0	1.5 mg/m ³⁽¹⁾	-	pneumoco niosis lung dam					
	soluble inorganic compounds (NOS) insoluble inorganic compounds (NOS) nickel subsulfide, as Ni	trinickel disulfide		0.1 mg/m ³⁽¹⁾	-	lung cancer					
			12035-72-2	0.2 mg/m ³⁽¹⁾	-	lung cancer			(2) 49-43-51/53		
				0.1 mg/m ³⁽¹⁾	-						

479.	nickel bis(benzene- sulfonate)		39819-65-3				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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480.	nickel bis(4-cyclohexylbutyrate)		3906-55-6				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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481.	nickel bis(dihydrogen phosphate)		18718-11-1				(4) 49-42/43-48/23-50/53			
482.	nickel bis(2-ethylhexanoate)		4454-16-4				(4) 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%		

483.	nickel bis(iso-nanoate)		84852-37-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
484.	nickel bis(phosphate)		14507-36-9				⁽⁴⁾ 49-42/43-48/23-50/53				

485.	nickel bis-(sulfamidate); nickel sulfamate		13770-89-3				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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486.	nickel 3,5-bis(<i>tert</i> -butyl)-4-hydroxybenzoate (1:2)		52625-25-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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487.	nickel bis(tetrafluoroborate)		14708-14-6				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			93
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488.	nickel carbonate	basic nickel carbonate; carbonic acid; nickel (2+) salt	3333-67-3						⁽⁵⁾ 22-40-43-50/53		
489.	nickel carbonyl, as Ni ⁽¹⁾ tetracarbonylnickel	nickel tetracarbonyl	13463-39-3	0.05 ppm	-	chemical pneumonitis			⁽¹⁾ 61-11-26-40-50/53		
490.	nickel chromate		14721-18-7				⁽⁴⁾ 49-42/43-48/23-50/53				

493.	nickel dibromate		14550-87-9				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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494.	nickel dibromide		13462-88-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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495.	nickel dichlorate		67952-43-6				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	$C \geq 25\%$ $2,5\% \leq C < 25\%$ $1\% \leq C < 2,5\%$ $0,5\% \leq C < 1\%$ $0,25\% \leq C < 0,5\%$ $0,1\% \leq C < 0,25\%$ $0,01\% \leq C < 0,1\%$			
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496.	nickel dichloride	7718-54-9	⁽¹⁾ 49-61-23/25-38-42/43-48/23-68-50/53 49-61-23/25-38-42/43-48/23-68-50/53 49-61-20/22-38-42/43-48/23-68-51/53 49-61-20/22-42/43-48/23-68-51/53 49-61-42/43-48/23-68-51/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25%	20%≤C<25%	3%≤C<20%	2,5%≤C<3%	1%≤C<2,5%	100
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498.	nickel dicyanide		557-19-7				⁽⁴⁾ 49-32-42/43- 48/23-50/53				
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499.	nickel difluoride		10028-18-9				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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501.	nickel dihydroxide		12054-48-7				⁽⁴⁾ 49-61-20/22- 38-42/43- 48/23-68- 50/53				
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502.	nickel diiodide		13462-90-3				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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504.	nickel dinitrate	13138-45-9	⁽¹⁾ 49-61-8- 20/22-38- 41-42/43- 48/23-68- 50/53 49-61- 20/22-38- 41-42/43- 48/23-68- 50/53 49-61-38- 41-42/43- 48/23-68- 51/53 49-61-41- 42/43- 48/23-68- 51/53 49-61-36- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	C≥25%	20%≤C<25%	10%≤C<20%	5%≤C<10%	2,5%≤C<5%	1%≤C<2,5%	108
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506.	nickel dipotassium bis(sulfate)		13842-46-1				(4) 49-61-20/22- 42/43- 48/23-68- 50/53 49-61- 20/22- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20- 52/53 49-43- 48/20- 52/53 49-43- 48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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507.	nickel dithiocyanate		13689-92-4				⁽⁴⁾ 49-61-32-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-61-43-48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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509.	nickel(II) hydrogen citrate		18721-51-2				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
510.	nickel hydrogen phosphate		14332-34-4				⁽⁴⁾ 49-42/43- 48/23-50/53				
511.	nickel hydroxide		11113-74-9				⁽⁴⁾ 49-61-20/22- 38-42/43- 48/23-68- 50/53				

512.	nickel(II) isodecanoate		85508-43-6				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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513.	nickel isooctanoate		27637-46-3				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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514.	nickel(II) isooctanoate		29317-63-3				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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515.	nickel(II) neodecanoate		85508-44-7				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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516.	nickel(II) neononanoate		93920-10-6				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
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517.	nickel(II) neo-undecanoate		93920-09-3				⁽⁴⁾ 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 C≥25% 2,5%≤C<25% 49-61-42/43-48/23-68-51/53 1%≤C<2,5% 49-61-42/43-48/23-68-52/53 0,5%≤C<1% 0,25%≤C<0,5% 49-61-43-48/20-52/53 0,1%≤C<0,25% 0,01%≤C<0,1% 49-43-48/20-52/53 49-43-48/20 43			
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519.	nickel(II) palmitate		13654-40-5				⁽⁴⁾ 49-61-42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 50/53 49-61- 42/43- 48/23-68- 51/53 49-61- 42/43- 48/23-68- 52/53 49-61-43- 48/20-52/53 49-43- 48/20-52/53 49-43-48/20 43	 C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
520.	nickel phosphinate		36026-88-7				⁽⁴⁾ 49-42/43- 48/23-50/53				

524.	nickel(II) selenite		10101-96-9				⁽⁴⁾ 49-42/43- 48/23-50/53				
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526.	nickel sulfate		7786-81-4				(1) 22-40-42/43-50/53				H334
527.	nickel(II) sulfite		7757-95-1				(4) 49-42/43-48/23-50/53				
528.	nickel tellurium tetraoxide		15852-21-8				(4) 49-42/43-48/23-50/53				
529.	nickel tellurium trioxide		15851-52-2				(4) 49-42/43-48/23-50/53				
530.	nickel(II) trifluoroacetate		16083-14-0				(4) 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-50/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20	C≥25% 2,5%≤C<25% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
							43				

531.	nitric acid (1) nitric acid ...%		7697-37-2	2 ppm	4 ppm	URT irr			(1) 8-35 35 34 8	C≥20% 5%≤C<20% C≥70%	
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533.	nitric oxide		10102-43-9	25 ppm	-	URT irr					
534.	nitroethane		79-24-3	100 ppm	-	URT irr			⁽¹⁾ 10-20/22 20/22	C≥12,5%	
535.	nitrogen dioxide		10102-44-0	0,2 ppm	-	LRT irr			⁽⁵⁾ 26-34 26 23 20	C≥10% 1%≤C<10% 0,1%≤C<1%	
536.	nitromethane		75-52-5	20 ppm	-	URT irr; lung dam			⁽⁵⁾ 5-10-22 22	C≥12,5%	
537.	(1S,3S,5R,6R)- (4-nitrophenyl- methyl)-1- dioxo-6-phenyl- acetamido- penam-3- carboxylate		54275-93-3				⁽²⁾ 42				H334
538.	(1S,4R,6R,7R)- (4-nitro- phenylmethyl)3- methylene-1- oxo-7-phenyl- acetamido- cepham-4- carboxylate		76109-32-5				⁽²⁾ 42				H334
539.	1-nitropropane		108-03-2	25 ppm	-	URT irr			⁽¹⁾ 10-20/21/22 20/21/22	C≥5%	
540.	octane, all isomers	n-octane	111-65-9	300 ppm	-	URT irr			⁽¹⁾ 11-38-50/53- 65-67		
541.	oleum ... % SO ₃		8014-95-7				⁽¹⁾ 14-35-37				H335
542.	osmium tetroxide ⁽¹⁾ osmium tetra- oxide	osmic acid	20816-12-0	0.0002 ppm	0.0006 ppm	URT irr			⁽¹⁾ 26/27/28-34		

543.	oxalic acid		144-62-7	1 mg/m ³	2 mg/m ³	URT irr			(5) 21/22	C≥5%	
544.	oxygen difluoride		7783-41-7	-	C 0.05 ppm	pulm edema; URT irr			21/22		
545.	ozone heavy work moderate work light work heavy, moderate, or light workloads (≤ 2 hours)		10028-15-6	0.05 ppm 0.08 ppm 0.10 ppm 0.20 ppm	- - - -	pulm func					
546.	papain	arbut; caroid; nematolyt; summetrin; vegetable pepsin; velardon; vermizym; papayotin; tromasin	9001-73-4				(1) 36/37/38-42				H335 H334
547.	paraffin wax fume		8002-74-2	2 mg/m ³	-	URT irr					
548.	paraquat, as the cation		4685-14-7	0.5 mg/m ³ 0.1 mg/m ^{3(R)}	- -	lung dam					
549.	paraquat dichloride	1,1'-dimethyl-4,4'-bipyridinium dichloride	1910-42-5				(2) 24/25-26-36/37/38-48/25-50/53				H335
550.	paraquat dimethyl sulfate	1,1'-dimethyl-4,4'-bipyridinium dimethyl-sulfate	2074-50-2				(2) 24/25-26-36/37/38-48/25-50/53				H335

551.	pentachlorophenol		87-86-5	0.5 mg/m ³	-	URT irr	⁽¹⁾ 24/25-26-36/37/38-40-50/53				H335
552.	pentaerythritol		115-77-5	10 mg/m ³	-	URT irr					
553.	pentanol isomers, with the exception for those specified elsewhere in the Annex 1B of the directive 2004/73/EC resp in the Annex VI of the Regulation 1272/2008		30899-19-5				⁽³⁾ 10-20-37-66				H335
554.	pentan-3-one	diethyl ketone	96-22-0	200 ppm	300 ppm	URT irr	⁽¹⁾ 11-37-66-67				H335
555.	1-pentanol		71-41-0				⁽¹⁾ 10-20-37/38				
556.	3-pentanol		584-02-1				⁽¹⁾ 10-20-37/38				

557.	pentyl acetate, all isomers (1) 1-methylbutyl acetate (1) isopentyl acetate (1) 2-methylbutyl acetat		628-63-7 626-38-0 123-92-2 624-41-9 620-11-1 625-16-1	50 ppm	100 ppm	URT irr			(1) all 10-66		
558.	pentyl formate		638-49-3				(1) 10-36/37				H335
559.	pepsin A		9001-75-6				(1) 36/37/38-42				H335 H334
560.	peracetic acid peracetic acid ... %		79-21-0	2012 NIC: -	2012 NIC: 0.2 ppm	2012 NIC: URT irr	(5) 7-10- 20/21/22- 35-50 20/21/22 35 34 36/37/38	C≥10% C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%

561.	perboric acid, sodium salt [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		11138-47-9				⁽⁴⁾ 61-8-22-37-41-62 61-22-37-41-62 61-37-41-62 61-36/37-62 61-36-62 61-62 61	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9%			
562.	perboric acid, sodium salt [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		11138-47-9				⁽⁴⁾ 61-8-22-23-37-41-62 61-22-23-37-41-62 61-20-37-41-62 61-20-36/37-62 61-20-36-62 61-20-62 61-20 20	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9% 3%≤C<6,5%			

563.	perboric acid, sodium salt, monohydrate [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		12040-72-1				(4) 61-8-22-37-41-62 61-22-37-41-62 61-37-41-62 61-36/37-62 61-36-62 61-62 61	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9%			
564.	perboric acid, sodium salt, monohydrate [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		12040-72-1				(4) 61-8-22-23-37-41-62 61-22-23-37-41-62 61-20-37-41-62 61-20-36/37-62 61-20-36-62 61-20-62 61-20 20	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9% 3%≤C<6,5%			

565.	perboric acid (HBO(O ₂)), sodium salt, monohydrate; sodium peroxoborate [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		10332-33-9				⁽⁴⁾ 61-8-22-37-41-62 61-22-37-41-62 61-37-41-62 61-36/37-62 61-36-62 61-62 61	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9%			
566.	perboric acid (HBO(O ₂)), sodium salt, monohydrate; sodium peroxoborate [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		10332-33-9				⁽⁴⁾ 61-8-22-23-37-41-62 61-22-23-37-41-62 61-20-37-41-62 61-20-36/37-62 61-20-36-62 61-20-62 61-20 20	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9% 3%≤C<6,5%			

567.	perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt trihydrate; sodium peroxoborate hexahydrate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		13517-20-9				⁽⁴⁾ 61-37-41-62 61-37-41-62 61-36/37-62 61-37-62 61-62 61	C≥36% 22%≤C<36% 20%≤C<22% 14%≤C<20% 10%≤C<14%			
568.	perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt trihydrate; sodium peroxoborate hexahydrate; [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		13517-20-9				⁽⁴⁾ 61-20-37-41-62 61-20-37-41-62 61-20-36/37-62 61-36/37-62 61-37-62 61-62 61	C≥36% 25%≤C<36% 22%≤C<25% 20%≤C<22% 14%≤C<20% 10%≤C<14%			

569.	perboric acid, sodium salt tetrahydrate [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		37244-98-7				(4) 61-37-41-62 61-37-41-62 61-36/37-62 61-37-62 61-62 61	C≥36% 22%≤C<36% 20%≤C<22% 14%≤C<20% 10%≤C<14%			
570.	perboric acid, sodium salt tetrahydrate [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		37244-98-7				(4) 61-20-37-41-62 61-20-37-41-62 61-20-36/37-62 61-36/37-62 61-37-62 61-62 61	C≥36% 25%≤C<36% 22%≤C<25% 20%≤C<22% 14%≤C<20% 10%≤C<14%			
571.	perboric acid (HBO(O ₂)), sodium salt tetrahydrate [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		10486-00-7				(4) 61-37-41-62 61-37-41-62 61-36/37-62 61-37-62 61-62 61	C≥36% 22%≤C<36% 20%≤C<22% 14%≤C<20% 10%≤C<14%			

572.	perboric acid (HBO(O ₂)), sodium salt tetrahydrate [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		10486-00-7				(4) 61-20-37-41-62 61-20-37-41-62 61-20-36/37-62 61-36/37-62 61-37-62 61-62 61	C≥36% 25%≤C<36% 22%≤C<25% 20%≤C<22% 14%≤C<20% 10%≤C<14%			
573.	perchloromethyl mercaptan		594-42-3	0.1 ppm	-	URT irr					
574.	perchloryl fluoride		7616-94-6	3 ppm	6 ppm	LRT & URT irr					
575.	perfluoroisobutylene		382-21-8	-	C 0.01 ppm	URT irr					
576.	phenol	carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	5 ppm	-	URT irr; lung dam		(5) 23/24/25-34-48/20/21/22-68 23/24/25 20/21/22 34 36/38	C≥10% 3%≤C<10% C≥3% 1%≤C<3%:		
577.	p-phenylenediamine		106-50-3	0.1 mg/m ³	-	URT irr		(1) 23/24/25-36-43-50/53			
578.	phenyl ether, vapor		101-84-8	1 ppm	2 ppm	URT irr					

579.	2-phenylethyl-isocyanate		1943-82-4				(2) 22-23-35-42/43-51/53				H334
580.	phenyl glycidyl ether	2,3-epoxypropyl phenyl ether; 1,2-epoxy-3-phenoxy-propane; PGE	122-60-1				(3) 45-20-37/38-43-68-52/53				H335
581.	phenyl-hydrazine		100-63-0	0.1 ppm	-	URT irr			(3) 45-23/24/25-36/38-43-48/23/24/25-68-50		
582.	2-phenyl propene	α -methylstyrene	98-83-9	10 ppm	-	URT irr	(5) 10-36/37-51/53 36/37	C \geq 25%			H335 STOT SE 3; H335: C \geq 25%
583.	2-(3-(prop-1-en-2-yl)phenyl)-prop-2-yl isocyanate		2094-99-7				(1) 26-34-42/43-48/20-50/53				H334
584.	phosgene	carbonyl chloride	75-44-5	0.1 ppm	-	URT irr; pulm edema; pulm emphysema			(5) 26-34		
585.	phosphine		7803-51-2	0.3 ppm	1 ppm	URT irr			(3) 12-17-26-34-50		
586.	phosphoric acid (1) phosphoric acid ... %	orthophosphoric acid ... %	7664-38-2	1 mg/m ³	3 mg/m ³	URT irr			(1) 34 34 36/38	C \geq 25% 10% \leq C<25%	
587.	phosphoric acid, calcium nickel salt		17169-61-8				(4) 49-42/43-48/23-50/53				
588.	phosphorus (yellow) (1) white phosphorus		12185-10-3	0.1 mg/m ³	-	LRT & URT irr			(1) 17-26/28-35-50		

589.	phosphorus oxychloride (1) phosphoryl trichloride		10025-87-3	0.1 ppm	-	URT irr			(1) 14-22-26-35-48/23		
590.	phosphorus pentachloride		10026-13-8	0.1 ppm	-	URT irr			(1) 14-22-26-34-48/20		
591.	phosphorus pentasulfide (1) diphosphorus pentasulfide		1314-80-3	1 mg/m ³	3 mg/m ³	URT irr			(1) 11-20/22-29-50		
592.	phosphorus tribromide		7789-60-8				(1) 14-34-37				H335
593.	phosphorus trichloride		7719-12-2	0.2 ppm	0.5 ppm	URT irr			(1) 14-26/28-35-48/20		
594.	phthalic anhydride		85-44-9	1 ppm	-	URT irr	(1) 22-37/38-41-42/43				H335 H334
595.	m-phthalodinitrile		626-17-5	5 mg/m ³ (FV)	-	URT irr					
596.	piperazine - solid - liquid	piperazine and salts, as piperazine	110-85-0	0.003 ppm ^(FV)	-	resp sens; asthma	(5) 34-42/43-52/53				H334
597.	piperazine dihydrochloride		142-64-3	5 mg/m ³	-	asthma	(4) 36/38-42/43-62-63-52/53				
598.	piperazine hydrochloride		6094-40-2				(4) 36/38-42/43-62-63-52/53				
599.	piperazine phosphate		1951-97-9				(4) 36/38-42/43-62-63-52/53				

600.	platinum and soluble salts metal soluble salts, as Pt		7440-06-4	1 mg/m ³ 0.002 mg/m ³	- -	asthma; URT irr asthma; URT irr					
601.	poly-[[[4-((4-ethyl-ethylene)-amino)phenyl)-((4-(ethyl-(2-oxyethylene)-amino)phenyl)-methinyl)cyclohexa-2,5-dienylidene)-N-ethyl-N-(2-hydroxyethyl)ammonium acetate]		176429-27-9				(¹) 37/38-41-50/53				
602.	poly-[[[4-((4-(ethyl-ethylene)-amino)-phenyl)-4-(ethyl-(2-oxyethylene)-amino)phenyl)-methinyl]-3-methylcyclohexa-2,5-dienylidene)-N-ethyl-N-(2-hydroxyethyl)-ammonium acetate]		176429-22-4				(¹) 37/38-41-50/53				

603.	polyvinyl chloride (PVC)		9002-86-2	1 mg/m ^{3(R)}	-	pneumocniosis; LRT irr; pulm func changes					
604.	Portland cement		65997-15-1	10 mg/m ^{3(ER)}	-	pulm func; respsymptoms; asthma					
605.	potassium chromate		7789-00-6				(5) 49-46-36/37/38-43-50/53 43	C≥0,5%			H335
606.	potassium dichromate		7778-50-9				(5) 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53 34 36/37/38	C≥10% 5%≤C<10%			H334 STOT SE 3; H335: C≥5%
607.	potassium hydrogensulfate		7646-93-7				(1) 34-37				H335
608.	potassium hydroxide	caustic potash	1310-58-3	-	C 2 mg/m ³	URT irr			(5) 22-35 35 34 36/38	C≥5% 2%≤C<5% 0.5%≤C<2%	
609.	potassium 2-hydroxycarbazole-1-carboxylate		96566-70-0				(1) 22-36/37-52/53				H335

610.	potassium penta-chlorophenolate		7778-73-6				(1) 24/25-26-36/37/38-40-50/53				H335
611.	propanal	propionaldehyde	123-38-6	20 ppm	-	URT irr	(1) 11-36/37/38				H335
612.	n-propanol (1) propan-1-ol	n-propyl alcohol	71-23-8	100 ppm	-	URT irr			(1) 11-41-67		
613.	2-propanol (1) propan-2-ol	isopropyl alcohol; isopropanol	67-63-0	200 ppm	400 ppm	URT irr			(1) 11-36-67		
614.	β -propiolactone (1) 3-propanolide	1,3-propiolactone	57-57-8	0.5 ppm	-	URT irr			(1) 45-26-36/38		
615.	propionic acid ...%		79-09-4	10 ppm	-	URT irr	(1) 34 34 36/37/38	C \geq 25% 10% \leq C<25%			STOT SE 3; H335: C \geq 10%
616.	n-propyl acetate (1) propyl acetate		109-60-4	200 ppm	250 ppm	URT irr			(1) 11-36-66-67		
617.	propylbenzene		103-65-1				(1) 10-37-51/53-65				H335
618.	propylene (1) propene		115-07-1	500 ppm	-	URT irr			(1) 12		
619.	propylene dichloride (1) 1,2-dichloropropane		78-87-5	10 ppm	-	URT irr			(1) 11-20/22		
620.	propyleneimine (3) 2-methylaziridine		75-55-8	0.2 ppm	0.4 ppm	URT irr			(3) 45-11-26/27/28-41-51/53 45	C \geq 0,01%	
621.	propylene oxide	1,2-epoxypropane; methyloxirane	75-56-9	2 ppm	-	URT irr	(2) 45-46-12-20/21/22-36/37/38				H335

622.	propyl formate		110-74-7				(1) 11-36/37-67				H335
623.	proteases with the exception of those specified elsewhere in the Annex I of the directive 67/548/EEC resp in the Annex VI of the Regulation 1272/2008		Index No 647-014-00-9				(1) 36/37/38-42				H335 H334
624.	proteinase, microbial neutral		9068-59-1				(1) 36/37/38-42				H335 H334
625.	pyrethrum		8003-34-7	5 mg/m ³	-	LRT irr					
626.	reaction product of amorphous silica (50-85 %), butyl (1-methylpropyl) magnesium (3-15 %), tetraethyl orthosilicate (5-15 %) and titanium tetrachloride (5-20 %)		Ec No 432-200-2				(4) 11-37/38-41-52/53				
627.	rennin		9001-98-3				(1) 36/37/38-42				H335 H334

628.	rhodium, as Rh metal and insoluble compounds soluble compounds		7440-16-6	1 mg/m ³ 0.01 mg/m ³	- -	metal: URT irr; insoluble: LRT irr asthma					
629.	rosin core solder thermal decomposition products (colophony) ⁽⁵⁾ rosin; colophony		8050-09-7	- ^(L)	-	asthma			⁽¹⁾ 43		
630.	sabadilla (ISO)	veratrine	8051-02-3				⁽¹⁾ 36/37/38				H335
631.	salts and esters of 2,4,5-T	salts and esters of 2,4,5-trichlorophenoxy acetic acid	Index No 607-042-00-4				⁽¹⁾ 22-36/37/38-50/53				H335
632.	selenium and compounds, as Se		7782-49-2	0.2 mg/m ³	-	URT irr			⁽²⁾ 23/25-33-53		
633.	selenium hexafluoride		7783-79-1	0.05 ppm	-	pulm edema					
634.	silica, crystalline – α-quartz cristobalite		14808-60-7 1317-95-9 14464-46-1	0.025 mg/m ^{3(R)}	-	pulm fibrosis; lung cancer					

635.	silicon carbide nonfibrous fibrous (including whiskers)		409-21-2	10 mg/m ^{3(I,E)} 3 mg/m ^{3(R,E)} 0.1 f/cc ^(F)	- - -	URT irr URT irr meso- thelioma; cancer					
636.	silicon tetrachloride		10026-04-7				⁽¹⁾ 14-36/37/38				H335
637.	silicon tetrahydride	silane	7803-62-5	5 ppm	-	URT irr					
638.	slimes and sludges, copper electrolytic refining, decopperised, nickel sulfate		92129-57-2				⁽⁴⁾ 49-61-20/22-38-42/43-48/23-68-50/53 49-61-20/22-38-42/43-48/23-68-50/53 49-61-38-42/43-48/23-68-51/53 49-61-42/43-48/23-68-51/53 49-61-42/43-48/23-68-52/53 49-61-43-48/20-52/53 49-43-48/20-52/53 49-43-48/20-43	C≥25% 20%≤C<25% 2,5%≤C<20% 1%≤C<2,5% 0,5%≤C<1% 0,25%≤C<0,5% 0,1%≤C<0,25% 0,01%≤C<0,1%			
639.	slimes and sludges, copper electrolyte refining, decopperised		94551-87-8				⁽⁴⁾ 49-61-42/43-48/23-62-68-50/53				

640.	soapstone			6 mg/m ^{3(E)} 3 mg/m ^{3(E,R)}	- -	LRT irr					
641.	sodium azide as sodium azide as hydrazoic acid vapor		26628-22-8	- -	C 0.29 mg/m ³ C 0.11 ppm	lung dam			(1) 28-32-50/53		
642.	sodium-2- biphenylate	2-biphenyl- phenol, sodium salt	132-27-4				(2) 22-37/38-41- 50				H335
643.	sodium bisulfite (1) sodium hydrogensulfite ...%	sodium bisulfite .../	7631-90-5	5 mg/m ³	-	URT irr			(1) 22-31		
644.	sodium chromate		7775-11-3				(5) 45-46-60-61- 21-25-26- 34-42/43- 48/23-50/53 42/43	C≥0,2%			H334 Resp Sens H334: C≥0.2%
645.	sodium dichromate anhydrate		10588-01-9				(5) 45-46-60-61- 8-21-25-26- 34-42/43- 48/23-50/53 34 36/37/38 42/43	C≥10% 5%≤C<10% C≥0,2%			H334 STOT SE 3; H335: C≥5% Resp Sens; H334: C≥0.2%

646.	sodium dichromate, dihydrate		7789-12-0				⁽⁵⁾ 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53 34 36/37/38 42/43	C≥10% 5%≤C<10% C≥0,2%		H334 STOT SE 3; H335: C≥5% Resp Sens; H334: C≥0.2%
647.	sodium hydroxide	caustic soda	1310-73-2	-	C 2 mg/m ³	URT irr			⁽¹⁾ 35 35 34 36/38	C≥5% 2%≤C<5% 0.5%≤2%
648.	sodium metabisulfite		7681-57-4	5 mg/m ³	-	URT irr			⁽²⁾ 22-31-41	
649.	sodium pentachlorophenolate		131-52-2				⁽¹⁾ 24/25-26-36/37/38-40-50/53			H335
650.	sodium perborate [containing <0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		15120-21-5				⁽⁴⁾ 61-8-22-37-41-62 61-22-37-41-62 61-37-41-62 61-36/37-62 61-36-62 61-62 61	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9%		

651.	sodium perborate [containing $\geq 0,1$ % (w/w) of particles with an aerodynamic diameter of below 50 μm]		15120-21-5				⁽⁴⁾ 61-8-22-23-37-41-62 61-22-23-37-41-62 61-20-37-41-62 61-20-36/37-62 61-20-36-62 61-20-62 61-20 20	$C \geq 25\%$ $22\% \leq C < 25\%$ $20\% \leq C < 22\%$ $14\% \leq C < 20\%$ $9\% \leq C < 14\%$ $6,5\% \leq C < 9\%$ $3\% \leq C < 6,5\%$			
652.	sodium peroxy-metaborate [containing $< 0,1$ % (w/w) of particles with an aerodynamic diameter of below 50 μm]		7632-04-4			⁽⁴⁾ 61-8-22-37-41-62 61-22-37-41-62 61-37-41-62 61-36/37-62 61-36-62 61-62 61	$C \geq 25\%$ $22\% \leq C < 25\%$ $20\% \leq C < 22\%$ $14\% \leq C < 20\%$ $9\% \leq C < 14\%$ $6,5\% \leq C < 9\%$				

653.	sodium peroxy-metaborate [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]		7632-04-4				(4) 61-8-22-23-37-41-62 61-22-23-37-41-62 61-20-37-41-62 61-20-36/37-62 61-20-36-62 61-20-62 61-20 20	C≥25% 22%≤C<25% 20%≤C<22% 14%≤C<20% 9%≤C<14% 6,5%≤C<9% 3%≤C<6,5%			
654.	sodium 4-(2,4,4-trimethyl-pentylcarbonyloxy)benzene-sulfonate		Index No 016-054-00-3				(1) 22-23-36/37-43-48/23				H335
655.	stearates ^(j)			10 mg/m ³	-	URT irr					
656.	styrene, monomer (1) styrene	phenylethylene; vinyl benzene	100-42-5	20 ppm	40 ppm	URT irr			(5) 10-20-36/38 20-36/38	C≥12,5%	
657.	subtilisins, as 100 % crystalline active pure enzyme	bacillus subtilis; proteolytic enzymes	9014-01-1 1395-21-7	-	C 0.00006 mg/m ³	asthma URT & LRT irr	(1) 37/38-41-42				H335 H334
658.	succinic anhydride		108-30-5				(5) 36/37	C≥1%			H335 STOT SE 3; H335: C≥1%
659.	sulfur dichloride		10545-99-0				(5) 14-34-37-50				H335 STOT SE 3; H335: C≥5%

660.	sulfur dioxide		7446-09-5	-	0,25 ppm	pulm func; LRT irr	⁽⁵⁾ 23-34 23 20	C≥20% 5%≥C<20%			
661.	sulfuric acid ⁽¹⁾ sulfuric acid ...%		7664-93-9	0.2 mg/m ³⁽¹⁾	-	pulm func			⁽¹⁾ 35 35 36/38	C≥15% 5%≤C<15%	
662.	sulfur pentafluoride		5714-22-7	-	C 0.01 ppm	URT irr; lung dam					
663.	sulfur tetrachloride		13451-08-6				⁽⁵⁾ 14-34-50 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
664.	sulfur tetrafluoride		7783-60-0	-	C 0.1 ppm	URT irr; lung dam					
665.	sulfuryl chloride		7791-25-5				⁽¹⁾ 14-34-37				H335
666.	symclosene	trichloroisocyan uric acid; trichloro-1,3,5- triazinetriion	87-90-1				⁽¹⁾ 8-22-31- 36/37-50/53				H335

667.	<p>synthetic vitreous fibers</p> <p>continuous filament glass fibers</p> <p>continuous filament glass fibers</p> <p>glass wool fibers</p> <p>rock wool fibers</p> <p>slag wool fibers</p> <p>special purpose glass fibers</p> <p>refractory ceramic fibers; special purpose fibres, with the exception of those specified elsewhere in the Annex of the Regulation 1272/2008</p> <p>[Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18 % by weight]</p>	<p>⁽⁵⁾ mineral wool, with the exception of those specified elsewhere in the Annex VI of the Regulation 1272/2008 ;</p> <p>[Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18 % by weight]</p>	<p>1f/cc^(F)</p> <p>5 mg/m³⁽¹⁾</p> <p>1f/cc^(F)</p> <p>1f/cc^(F)</p> <p>1f/cc^(F)</p> <p>1f/cc^(F)</p> <p>0.2 f/cc^(F)</p>	-	<p>URT irr</p> <p>URT irr</p> <p>pulm fibrosis; pulm func</p>				<p>⁽⁵⁾ 38-40</p> <p>⁽¹⁾ 49-38</p>		
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668.	2,4,5-T	2,4,5-trichlorophenoxy acetic acid	93-76-5				(1) 22-36/37/38-50/53				H335
669.	talc containing no asbestos fibers containing asbestos fibers		14807-96-6	2 mg/m ^{3(E,R)}	-	pulm fibrosis; pulm func					
				use asbestos TLV [®] (K)	-						
670.	(tantalum and tantalum oxide dusts, as Ta)		7440-25-7 1314-61-0	(5 mg/m ³)	-	(URT irr)					
671.	TCA-sodium (ISO)	sodium trichloroacetate	650-51-1				(2) 37-50/53				H335
672.	tellurium hexafluoride, as Te		7783-80-4	0.02 ppm	-	LRT irr					
673.	terphenyls		26140-60-3	-	C 5 mg/m ³	URT irr					
674.	1,4,7,10-tetraazacyclododecane disulfate		112193-77-8				(2) 22-37-41-52/53				H335
675.	1,1,2,2-tetrabromoethane	acetylene tetrabromide	79-27-6	0.1 ppm ^(IFV)	-	URT irr; pulm edema			(5) 26-36-52/53		
676.	tetrachlorophthalic anhydride		117-08-8				(1) 41-42/43-50/53				H334

677.	tetrachloroplati- nates with the exception of those specified elsewhere in the Annex I of the directive 2001/59/EC resp in the Annex VI of the Regulation 1272/2008		Index No. 078- 001-00-0				(2) 25-41-42/43				H334
678.	$\alpha,\alpha,\alpha,4$ -tetra- chlorotoluene	p-chlorobenzo- trichloride	5216-25-1				(3) 45-21/22- 37/38- 48/23-62				H335
679.	tetraethyl silicate	ethyl silicate; silicic acid; tetraethyl ester	78-10-4	10 ppm	-	URT irr	(1) 10-20-36/37				H335
680.	tetrahydrofuran		109-99-9	50 ppm	100 ppm	URT irr	(1) 11-19-36/37 36/37	C \geq 25%			H335 STOT SE 3; H335: C \geq 25%
681.	tetrahydrofuran- 2,5-diyl-di- methanol		104-80-3				(1) 36/37/38 36/37/38	C \geq 10%			H335 STOT SE 3; H335: C \geq 10%
682.	3a,4,7,7a- tetrahydro-4,7- methanoindene	dicyclopentadie ne	77-73-6	5 ppm	-	URT irr; LRT irr	(1) 11-20/22- 36/37/38- 51/53				H335
683.	1,2,3,6-tetra- hydro-3,6- methanophthali c anhydride		826-62-0				(1) 41-42/43				H334
684.	(1 α ,2 α ,3 β ,6 β)- 1,2,3,6-tetra- hydro-3,6- methanophthali c anhydride		2746-19-2				(1) 41-42/43				H334

685.	cis-1,2,3,6-tetrahydro-4-methylphthalic anhydride		1694-82-2				(1) 41-42/43				H334
686.	1,2,3,6-tetrahydro-4-methylphthalic anhydride		3425-89-6				(1) 41-42/43				H334
687.	1,2,3,6-tetrahydro-3-methylphthalic anhydride		5333-84-6				(1) 41-42/43				H334
688.	tetrahydromethylphthalic anhydride		11070-44-3				(1) 41-42/43				H334
689.	1,2,3,6-tetrahydromethylphthalic anhydride		26590-20-5				(1) 41-42/43				H334
690.	tetrahydro-4-methylphthalic anhydride		34090-76-1				(1) 41-42/43				H334
691.	2,3,5,6-tetrahydro-2-methylphthalic anhydride		42498-58-8				(1) 41-42/43				H334
692.	1,2,3,4-tetrahydro-1-naphthyl hydroperoxide		771-29-9				(5) 7-22-34-50/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%

693.	1,2,3,6-tetrahydro-phthalic anhydride		85-43-8				(1) 41-42/43-52/53				H334
694.	cis-1,2,3,6-tetrahydro-phthalic anhydride		935-79-5				(1) 41-42/43-52/53				H334
695.	3,4,5,6-tetrahydro-phthalic anhydride		2426-02-0				(1) 41-42/43-52/53				H334
696.	tetrahydro-phthalic anhydride		26266-63-7				(1) 41-42/43-52/53				H334
697.	tetranitromethane		509-14-8	0.005 ppm	-	URT irr; URT cancer					
698.	tetrasodium 5-(4,6-dichloro-5-cyanopyrimidin-2-ylamino)-4-hydroxy-2,3-azodinaphthalene-1,2,5,7-disulphonate		Index No 016-036-00-5				(1) 42-51/53				H334
699.	tetryl	<i>N</i> -methyl- <i>N</i> ,2,4,6-tetranitroaniline; 2,4,6-trinitrophenylmethylnitramine	479-45-8	1.5 mg/m ³	-	URT irr			(5) 2-23/24/25-33		

700.	4,4'-thiobis(6-tert-butyl-m-cresol)		96-69-5	10 mg/m ^{3(l)}	-	URT irr					
701.	thiocarbonyl-chloride		463-71-8				(1) 22-23-36/37/38				H335
702.	thionyl dichloride	thionyl chloride	7719-09-7	-	C 0.2 ppm	URT irr	(5) 14-20/22-29-35 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
703.	tin and inorganic compounds, excluding tin hydride, as Sn metal oxide and inorganic compounds		7440-31-5	2 mg/m ³ 2 mg/m ³	- -	pneumocoinosis (or stannosis)					
704.	tin, organic compounds, as Sn		7440-31-5	0,1 mg/m ³	0.2 mg/m ³	URT irr					

705.	tin tetrachloride	stannic chloride	7646-78-8				(5) 34-52/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
706.	titanium dioxide		13463-67-7	10 mg/m ³	-	LRT irr					
707.	p-toluene-sulfonic acid (containing a maximum of 5% H ₂ SO ₄)		104-15-4				(5) 36/37/38				H335 STOT SE 3; H335: C≥20%
708.	tolyfluamid (ISO)	dichloro-N-[(dimethylamino)sulfonyl]-fluoro-N-(p-tolyl)methanesulfenamide [containing ≥0,1% (w/w) of particles with an aerodynamic diameter of below 50 µm]	731-27-1				(5) 26-36/37/38-43-48/20-50/53				H335
709.	m-tolylidene diisocyanate	toluene-diisocyanate	26471-62-5				(5) 26-36/37/38-40-42/43-52/53 42	C≥0,1%			H335 H334 resp sens 1; H334: C≥0.1%
710.	tosylchloramide sodium		127-65-1				(1) 22-31-34-42				H334
711.	toxaphene	camphechlor	8001-35-2				(1) 21-25-37/38-40-50/53				H335
712.	tributyl phosphate		126-73-8	(0.2 ppm) 2012 NIC: 5 mg/m ³ (FV)	- 2012 NIC: -	(URT irr) 2012 NIC: URT irr				(3) 22-38-40	

713.	trichloroacetic acid		76-03-9	(1 ppm) 2012 NIC: 0.5 ppm	- 2012 NIC: -	URT irr 2012 NIC: URT irr	⁽⁵⁾ 35-50/53 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335:C≥1%
714.	1,2,4-trichlorobenzene		120-82-1	-	C 5 ppm	URT irr			⁽²⁾ 22-38-50/53		
715.	2,3,4-trichlorobut-1-ene		2431-50-7				⁽⁵⁾ 22-23- 36/37/38- 40-50/53 40	C≥0,1%			H335
716.	trichloro-(methyl)silane	methyltrichlorosilane	75-79-6				⁽¹⁾ 11-14- 36/37/38 36/37/38	C≥1%			H335 STOT SE: H335: C≥1%
717.	trichloronitromethane	chloropicrin; nitrotrichloromethane	76-06-2	0.1 ppm	-	pulm edema	⁽¹⁾ 22-26- 36/37/38				
718.	1,2,3-trichloropropane		96-18-4	(10 ppm) 2012 NIC: 0.05 ppm	- 2012 NIC: -	(URT irr) 2012 NIC: URT irr			⁽³⁾ 45-60- 20/21/22		
719.	trichlorosilane		10025-78-2				⁽¹⁾ 12-14-17- 20/22-29-35 20/22-35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			H335: C≥1%
720.	α,α,α-trichlorotoluene	benzotrichloride	98-07-7	-	C 0.1 ppm	URT irr	⁽¹⁾ 45-22-23- 37/38-41				H335
721.	2,4,6-trichloro-1,3,5-triazine	cyanuric chloride	108-77-0				⁽⁵⁾ 14-22-26-34- 43 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%

722.	1-(tricyclohexylstannyl)-1 <i>H</i> -1,2,4-triazole	azocyclotin	41083-11-8				(1) 25-26-37/38-41-50/53				H335
723.	triethylamine		121-44-8				(5) 11-20/21/22-35 35 34 36/37/38	C≥10% 5%≤C<10% 1%≤C<5%			STOT SE 3; H335: C≥1%
724.	S-(3-trimethoxysilyl)propyl 19-isocyanato-11-(6-isocyanatohexyl)-10,12-dioxo-2,9,11,13-tetraazanodecanethioate		85702-90-5				(1) 10-42/43				H334
725.	tri-methylamine		75-50-3	5 ppm	15 ppm	URT irr	(5) 12-20-37/38-41 20 37/38-41 36	C≥5% C≥5% 0.5%≤C<5%			H335 STOT SE 3; H335: C≥5%
726.	tri-methylamine ...%		75-50-3				(5) 12-20/22-34 20/22 34 36/37/38	C≥15% C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
727.	trimethyl benzene (mixed isomers)		25551-13-7	25 ppm	-	asthma					
728.	1,2,4-trimethylbenzene		95-63-6				(1) 10-20-36/37/38-51/53				H335

729.	3,5,5-trimethyl-cyclohex-2-enone	isophorone	78-59-1	-	C 5 ppm	URT irr	⁽⁵⁾ 21/22-36/37-40 36/37	C≥10%				H335 STOT SE 3; H335: C≥10%
730.	2,2,4-trimethyl-hexamethylene-1,6-di-isocyanate		16938-22-0				⁽⁵⁾ 23-36/37/38-42 23 20 42	C≥2% 0,5%≤C<2% C≥0,5%				H335 H334 (*) resp sens 1; H334: C≥0.5%
731.	2,4,4-trimethyl-hexamethylene-1,6-di-isocyanate		15646-96-5				⁽⁵⁾ 23-36/37/38-42 23 20 42	C≥2% 0,5%≤C<2% C≥0,5%				H335 H334 (*) resp sens 1; H334: C≥0.5%
732.	2,3,5-trimethyl-hydroquinone		700-13-0				⁽¹⁾ 20-37/38-41-43-50/53					H335
733.	trinickel bis(ortho-phosphate)		10381-36-9				⁽⁴⁾ 49-42/43-48/23-50/53					
734.	8,9,10-trinorborn-5-ene-2,3-dicarboxylic anhydride		129-64-6				⁽¹⁾ 41-42/43					H334

735.	trioctyltin compounds, with the exception of those specified elsewhere in the Annex 1B of the directive 2004/73/EC resp in the Annex VI of the Regulation 1272/2008		Index-No 050-013-00-0				⁽⁵⁾ 36/37/38-53 36/37/38	C≥1%			H335 STOT SE 3; H335: C≥1%
736.	1,3,5-trioxan	trioxymethylene	110-88-3				⁽³⁾ 11-37-63				H335
737.	troclosene potassium		2244-21-5				⁽¹⁾ 8-22-31-36/37-50/53 22-31-36/37	C≥10%			H335 (*) STOT SE 3; H335: C≥10%
738.	troclosene sodium		2893-78-9				⁽¹⁾ 8-22-31-36/37-50/53 22-31-36/37	C≥10%			H335 (*) STOT SE 3; H335: C≥10%
739.	troclosene sodium, dihydrate		51580-86-0				⁽⁵⁾ 22-31-36/37-50/53				H335
740.	trypsin		9002-07-7				⁽¹⁾ 36/37/38-42				H335 H334
741.	tungsten, as W metal and insoluble compounds soluble compounds		7440-33-7	5 mg/m ³ 1 mg/m ³	10 mg/m ³ 3 mg/m ³	LRT irr pulm fibrosis					

742.	turpentine and selected mono-terpenes (¹) turpentine, oil	α -pinene β -pinene δ -3-carene	8006-64-2 80-56-8 127-91-3 13466-78-9	20 ppm	-	URT irr; lung dam			(¹) 10-20/21/22-36/38-43-51/53-65		
743.	n-valeraldehyde		110-62-3	50 ppm	-	URT irr					
744.	vinyl acetate		108-05-4	10 ppm	15 ppm	URT irr			(¹) 11		
745.	vinyl chloride		75-01-4	1 ppm	-	lung cancer			(⁵) 45-12		
746.	1-vinyl-2-pyrrolidone		88-12-0				(²) 20/21/22-37-40-41-48/20				H335
747.	vinyl toluene	methyl styrene, all isomers	25013-15-4	50 ppm	100 ppm	URT irr					
748.	wood dust western red cedar all other species			0.5 mg/m ^{3(l)} 1 mg/m ^{3(l)}	- -	asthma pulm func					
749.	xylene (o, m & p isomers) o-xylene m-xylene p-xylene	dimethylbenzene 1,2-dimethylbenzene 1,3-dimethylbenzene 1,4-dimethylbenzene	1330-20-7 95-47-6 108-38-3 106-42-3	100 ppm	150 ppm	URT irr			(⁵) all: 10-20/21-38 20/21	C \geq 12,5%	
750.	2,6-xylydine	2,6-dimethylaniline	87-62-7				(²) 20/21/22-37/38-40-51/53				H335

751.	yttrium and compounds, as Y		7440-65-5	1 mg/m ³	-	pulm fibrosis					
752.	zinc chloride fume		7646-85-7	1 mg/m ³	2 mg/m ³	LRT & URT irr	(5) 22-34-50/53 34 36/37/38	C≥10% 5%≤C<10%			STOT SE 3; H335: C≥5%
753.	zinc bis(dibutyl-dithiocarbamate)	bis(dibutyl-dithiocarbamate)zinc; butyl ziram; zinc N,N-dibutyl-dithiocarbamate	136-23-2				(1) 36/37/38-43-50/53				H335
754.	zinc bis(diethyl-dithiocarbamate)		14324-55-1				(1) 22-36/37/38-43-50/53				H335
755.	zinc oxide		1314-13-2	2 mg/m ^{3(R)}	10 mg/m ^{3(R)}	mff			(3) 50/53		
756.	zineb		12122-67-7				(1) 37-43				H335
757.	ziram (ISO)	zinc bis dimethyldithiocarbamate	137-30-4				(3) 22-26-37-41-43-48/22-50-53 50-53 51-53 52-53	C≥0,25% 0,025%≤C<0,25% % 0,0025%≤C<0,025%			H335

*

Hazard statement Code of GHS

H300: Fatal if swallowed
H301: Toxic if swallowed
H302: Harmful if swallowed
H303: May be harmful if swallowed
H304: May be fatal if swallowed and enters airways
H305: May be harmful if swallowed and enters airways
H310: Fatal in contact with skin
H311: Toxic in contact with skin
H312: Harmful in contact with skin
H313: May be harmful in contact with skin
H314: Causes severe skin burns and eye damage
H315: Causes skin irritation
H316: Causes mild skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
H320: Causes eye irritation
H330: Fatal if inhaled
H331: Toxic if inhaled
H332: Harmful if inhaled
H333: May be harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H340: May cause genetic defects
H341: Suspected of causing genetic defects
H350: May cause cancer
H350i: May cause cancer by inhalation
H351: Suspected of causing cancer
H360: May damage fertility or the unborn child
H361: Suspected of damaging fertility or the unborn child
H362: May cause harm to breast-fed children
H370: Causes damage to organs
H371: May cause damage to organs
H372: Causes damage to organs through prolonged or repeated exposure
H373: May cause damage to organs through prolonged or repeated exposure

R-Phrases

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R2 Risk of explosion by shock, friction, fire or other sources of ignition
R5 Heating may cause an explosion
R6 Explosive with or without contact with air
R7 May cause fire
R8 Contact with combustible material may cause fire
R9 Explosive when mixed with combustible material
R10 Flammable
R11 Highly flammable
R12 Extremely flammable
R14 Reacts violently with water
R15 Contact with water liberates highly flammable gases
R17 Spontaneously flammable in air
R19 May form explosive peroxides

R20 Harmful by inhalation
R21 Harmful in contact with skin
R22 Harmful if swallowed
R23 Toxic by inhalation
R24 Toxic in contact with skin
R25 Toxic if swallowed
R26 Very toxic by inhalation
R28 Very toxic if swallowed
R29 Contact with water liberates toxic gases
R31 Contact with acids liberates toxic gas
R32 Contact with acids liberates very toxic gas
R33 Danger of cumulative effects
R34 Causes burns
R35 Causes severe burns
R36 Irritating to eyes
R37 Irritating to respiratory system
R38 Irritating to skin
R40 Possible risks of irreversible effects
R41 Risk of serious damage to eyes
R42 May cause sensitization by inhalation
R43 May cause sensitization by skin contact
R44 Risk of explosion if heated under confinement
R45 May cause cancer
R46 May cause heritable genetic damage
R49 May cause cancer by inhalation
R50 Very toxic to aquatic organisms
R51 Toxic to aquatic organisms
R52 Harmful to aquatic organisms
R53 May cause long-term adverse effects in the aquatic environment
R59 Dangerous for the ozone layer
R60 May impair fertility
R61 May cause harm to the unborn child
R62 Possible risk of impaired fertility
R63 Possible risk of harm to the unborn child
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness
R68 Possible risk of irreversible effects

Combination of R-Phrases

R20/21 Harmful by inhalation and in contact with skin
R20/22 Harmful by inhalation and if swallowed
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R21/22 Harmful in contact with skin and if swallowed
R23/25 Toxic by inhalation and if swallowed
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R24/25 Toxic in contact with skin and if swallowed
R26/28 Very toxic by inhalation and if swallowed
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed
R36/37 Irritating to eyes and respiratory system
R36/38 Irritating to eyes and skin
R36/37/38 Irritating to eyes, respiratory system and skin
R37/38 Irritating to respiratory system and skin
R42/43 May cause sensitization by inhalation and skin contact
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed

R48/20/21 Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin
 R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
 R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
 R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation
 R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed
 R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Abbreviations

()	adopted values or notations enclosed are those for which changes are proposed in the NIC
ACGIH	American Conference of Governmental Industrial Hygienists
BEI	substances for which there is a Biological Exposure Index or Indices
C (in column ACGIH)	ceiling limit
C	concentration
CAS	Chemical Abstracts Service
CNS	Central Nervous System
dam	damage
(E)	the value is for particulate matter containing no asbestos and < 1% crystalline silica
EC ¹	EC Directive 67/548/EEC
EC ²	EC Directive 2001/59/EC
EC ³	EC Directive 2004/73/EC
EC ⁴	EC Directive 2009/2/EC
EC ⁵	EC Regulation 1272/2008
eff	effects
(F)	respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination
func	function
(G)	as measured by the vertical elutriator, cotton-dust sampler; see the TLV [®] <i>Documentation</i>
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
H	Hazard statement Code of GHS
(H)	aerosol only
(I)	inhalable fraction
irr	irritation
(IFV)	inhalable fraction and vapour
(J)	does not include stearates of toxic metals
(L)	exposure by all routes should be carefully controlled to levels as low as possible
LRT	lower respiratory tract
mff	metal fume fever

mg/m ³	milligrams of substance per cubic meter of air
NIC	2009 Notice of Intended Changes
(O)	sampled by method that does not collect vapor
(P)	application restricted to conditions in which there are negligible aerosol exposures
ppm	parts of vapor or gas per million parts of contaminated air by volume at NTP conditions (25° C; 760 torr)
pulm	pulmonary
(R)	respirable fraction
R phrases	risk phrases
resp	respiratory
SE	single exposure
sens	sensitization
STEL	short-term exposure limit
STOT	specific target organ
sym	symptoms
URT	upper respiratory tract
(T)	thoracic fraction
TLV	threshold limit value
TWA	8-hour, time-weighted average