4.5 Overview of classification of substances

CAS number	Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m$_0^3$)
	A				
[123-86-4]	Acetic butylester	refer to: n-butylacetate	O.2	500	50
[141-78-6]	Acetic ester		O.2	500	50
[141-78-6]	Acetic ethylester	refer to: ethylacetate	O.2	500	50
[79-20-9}	Acetic methylester	refer to: methylacetate	O.2	500	50
[108-05-4]	Acetic vinyl ester	refer to: vinyl acetate	O.2	500	50
[67-64-1]	Acetone	refer to: propanone	O.2	500	50
[75-05-8]	Acetonitrile		O.2	500	50
[74-86-2]	Acetylene	refer to: ethyn	O.2	500	50
[107-02-8]	Acrolein	refer to: propenal; 10)	O.1	100	20
[107-13-1]	Acrylonitrile	refer to: propenenitrile; 11)	carc.		
[...]	Alcoholethylene-oxide-phosphate ester (mixture of C12/C14 monomers, dimers and trimers		O.2	500	50
[...]	Alkylalcohols		O.3	500	50
[...]	Aluminium and its compounds		S	refer to:§3.2.2	5/20/50
[62-53-3]	Aminobenzene	10)	O.1	100	20
[25038-54-4] 6-	Aminohexanoic acid (dimer)		O.2	500	50
[6032-2] 6-	Aminohexanoic acid (monomer)		O.2	500	50
[...] 6-	Aminohexanoic acid (trimer)		O.2	500	50
[7664-41-7}	Ammonia		gA.3	150	30
[[123-92-2] i-	Amylacetate		O.2	500	20
[100-66-3]	Anisol	90	O.2	500	50
[120-12-7]	Anthracene		sO	refer to: §3.2.4	50/20/50
[...}	Antimony and its compounds, calculated as Sb		sA.3	10	5.0
[7400-37-1]	Argon		-		
[...]	Arsenic and its compounds, calculated as As	8)	sA.1	0.25	0.05
[7784-42-1]	Arsenic trihydride (arsine)	10)	sA.1	2.5	0.5
[1332-21-4]	Asbestos	5) 8) 10)	sA.1	0.25	0.05
[151-56-4]	Aziridine	2) refer to: ethylenimine; 10)	O.1	100	20
	B				
[...]	Barium and its compounds, calculated as Ba		gA.3	10	5.0
[98-87-3]	Benzalchloride	9)	O.1	100	20
[100-52-7]	Benzaldehyde		O.1	100	20
[71-43-2]	Benzene	11)	carc.		
[100-21-0]	Benzene-1,4-dicarbon acid	1)	-		
[...]	Benzine		O.2	500	50
[56-55-3]	Benzo(a)anthracene	11)	carc.		
[50-32-8]	Benzo(a)pyrene	11)	carc.		
[205-82-3]	Benzo(b)fluoranthene	11)	carc.		
[205-99-2]	Benzo(j)fluoranthene	11)	carc.		
[207-08-7]	Benzo(k)fluoranthene	11)	carc.		
[93-58-3]	Benzoic methyl ester	refer to: methyl benzoate	sO	refer to: §3.2.4	5/20/50
[98-07-7]	Benzotrichloride	9) 10)	carc.		
[100-44-7]	Benzylchloride	9)	O.1	100	20
[102561-46-6	Benzyltributyl-ammonium 4-hydroxy-napthalene-1-sulphonate		S	refer to: §3.2.2	5/20/50
[...]	Beryllium and its compounds, calculated as Be	11)	carc.		
[91-17-8]	Bicyclo(4,4,0)decane	refer to: decahydro-napthalene	O.2	500	50
[92-52-4]	Biphenyl		sO	refer to: §3.2.4	5/20/50
[...]	Borium and its compounds in particulate form		S	refer to: §3.2.2	5/20/50
[10294-34-5]	Borium trichloride	10)	gA.2	15	3.0
[7637-07-2]	Borium trifluoride	10)	gA.2	15	3.0
[...]	Bromine and its compounds, calculated as HBr	10)	gA.2	15	3.0
[109-65-9]	Bromobutane		O.2	500	50
[109-70-6]	Bromo-3-chloropane	4)	O.3	500	100
[74-97-5]	Bromochloromethane	3)	O.2	500	50
[75-27-4]	Bromodichloromethane	9)	O.1	100	50
[106-94-5]	Bromopropane		O.2	500	50
[106-99-0]	Buta-1,3-diene	11)	carc.		
[106-99-0]	Butadiene	11)	carc.		
[123-72-8]	Butanal		O.2	500	50

CAS number		Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m$_0^3$)
[78-92-2]	sec-	Butanol	refer to: 2-butanol	O.2	500	50
[71-36-3]	n-	Butanol		O.2	500	50
[78-83-1]	i-	Butanol		O.2	500	50
[78-92-2]	2-	Butanol		O.2	500	50
[75-65-0]	tert-	Butanol	refer to: 2-methyl-2-propanol	O.2	500	50
[78-93-3]	2-	Butanone		O.2	500	50
[10215-33-5]	3-	Butoxy-1-propanol		O.2	500	50
[112-07-2]	2-	Butoxy-ethylacetate		O.2	500	50
[5131-66-8]	1-	Butoxy-2-propanol		O.2	500	50
[111-76-2]	2-	Butoxyethanol		O.2	500	50
[112-34-5]	2-(2-	Butoxy-ethoxy)-ethanol		O.2	500	50
[124-17-4]	2-(2-	Butoxy-ethoxy)-ethylacetate		O.2	500	50
[110-19-0]	iso-	Butylacetate		O.2	500	50
[123-86-4]	n-	Butylacetate		O.2	500	50
[71-36-3]		Butylalcohol		O.2	500	50
[123-72-8]	n-	Butylaldehyde	refer to: butanal	O.2	500	50
[112-34-5]		Butyldiglycol	9)	O.2	500	50
[111-76-2]		Butylglycol	refer to: butoxyethanol	O.2	500	50
[7397-62-8]		Butylglycolate	9)	O.2	500	50
[112-07-2]		Butylglycolacetate	refer to: 1-butoxy-2-ethylacetate	O.2	500	50
[138-22-7]		Butyl lactate		O.2	500	50
[97-88-1]	n-	Butylmethacrylate		O.2	500	50
[123-95-5]		Butylstereate	9)	O.2	500	50
[123-72-8]	n-	Butyraldehyde	refer to: n-butylaldehyde	O.2	500	50
[96-48-0]	g-	Butyrolacton	1)	-		
		C				
[...]		Cadmium and its compounds, calculated as Cd		sA.1	0.25	0.05
[7789-75-5]		Calcium fluoride	9)	sA.3	10	5.0
[1305-78-8]		Calcium oxide		sA.3	10	5.0
[...]		Calcium compounds with the exception of calcium oxide		S	refer to: §3.2.2	5/20/50
[1333-86-4]		Carbon black		S	refer to: §3.2.2	5/20/50
[[75-15-0]		Carbon disulphide	10)	O.2	500	50
[630-08-0]		Carbon monoxide (CO)		-		
[...]		Carbon tetrafluoride	9)	O.2	500	50
[...]		Castor oil ethoxylate (with 15 ethylene oxide units)				
[...]		Ceramic fibres		sA.1	0.25	0.05
[...}		Chlorine compounds, calculated as HCL		gA3	150 refer to §3.2.2	10/30
[1009-04-4]		Chlorine dioxide		gA.1	2.5	0.5
[7782-50-5]		Chlorine gas (C12)		gA.2	15	3.0
[126-99-8]	2-	Chloro-1,3-butadiene		O.2	500	50
[106-89-8]	1-	Chloro-2,3-epoxypropane	refer to: epichlorohydrine;11)	carc.		
[108-90-7]		Chlorobenzene		O.2	500	50
[...]		Chlorobenzenes with the exception of 1,2-dichlorobenzene		O.2	500	50
[506-77-4]		Chlorocyanide		gA.1	2.5	0.5
[75-00-3]		Chloroethane	refer to: ethyl chloride	O.2	500	50
[75-29-6]	2-	Chloroethene	refer to: vinyl chloride; 11)	carc.		
[126-99-8]	2-	Chloroprene	refer to: 2-chloro-1,3-butadiene	O.2	500	50
75-29-06]	2-	Chloropropane		O.2	500	50
[...}		Chromium and its compounds, calculated as Cr (excluding the Cr(VI) compounds)		sA.3	10	5.0
[...]		Chromium (VI) compounds	11)	carc.		
[14977-61-8]		Chromyl chloride	10)	sA.2	2.5	0.5
[218-01-9]		Chrysene	6) 11)	-		
[...]		Cobalt (fume) and cobalt compounds, calculated as Co		SA.2	2.5	0.5
[...]		Copper and its compounds, calculated as Cu, with the exception of copper fume		sA.3	10	50
[...]		Copper fume		sA.2	2.5	0.5
[14464-46-1]		Cristoballite		sA.1	0.25	0.05
[98-82-8]		Cumene	refer to: isopropyl benzene	O.2	500	50
[...]		Cyanides, calculated as CN		sA.3	10	5.0
[110-82-7]		Cyclohexane	refer to: hydrocarbons, parafinnic	O.2	500	50
[108-93-0]		Cyclohexanol		O.2	500	50
[108-94-1]		Cyclohexanone		O.2	500	50

CAS number		Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m$_0^3$)
		D				
[91-17-8]		Decahydronaphthalene		O.2	500	50
[91-17-8]		Decaline	refer to: decahydronaphthalene	O.2	500	50
[541-02-06]		Decamethylcyclopentasiloxane(d5)	9)	O.2	500	50
[117-81-7]		Di(2-ethylhexyl)phthalate		O.2	500	50
[123-42-2]		Diacetone alcohol	refer to 4-hydroxy-4-methyl-pentanone	O.2	500	50
[107-15-3]	1,2-	Diaminoethane		O.1	100	20
[53-70-3]		Dibenzo(a,h)-anthracene	11)	carc.		
[19287-45-7]		Diborane (B2H6)		gA.1	2.5	0.5
[106-93-4]	1,2-	Dibromomethane	11)	carc.		
[615-58-7]	2,4-	Dibromophenol	9)	O.1	100	20
[142-96-1]		Dibutyl ether		O.2	500	50
[91-94-1]	3.3'-	Dichloro-(1,1'-biphenyl)	11)	carc.		
[306-83-2]	2,2-	Dichloro-1,1,1-trfluorethane		O.2	500	50
[354-23-4]	1,2-	Dichloro-1,1,2-trfluorethane		O.2	500	50
[106-46-7]	1,4-	Dichlorobenzene		O.2	500	50
[91-94-1]	3,3-	Dichlorobenzidene (+salts); 10)	refer to: 3,3'-dichloro-(1,1'-biphenyl)	carc.		
[75-71-8]		Dichlorodifluormethane	3)	-		
[107-06-2]	1,2-	Dichloroethane	11)	carc.		
[75-34-3]	1,1-	Dichloroethane	4)	O.3	500	100
[75-35-4]	1,1-	Dichloroethene		O.1	100	20
[540-59-0]	1,2-	Dichloroethene		O.2	500	50
[540-59-0]	1,2-	Dichloroethylene, cis/trans	4)	O.3	500	100
[75-09-2]		Dichloromethane		O.2	500	50
[78-87-5]	1,2-	Dichloropropane		O.2	500	
[...]		Dichloro-silicondihydride		gA.3	150	30
[...]		Didodecylmaleate		O.2	500	50
[111-42-2]		Diethanolamine	refer to: 2,2'-iminodiethanol	O.2	500	50
[105-58-8]		Diethylcarbonate		O.2	500	50
[112-34-5]		Diethyleneglycolmonobutylether		O.2	500	50
[111-90-0]		Diethyleneglycolmonobutylether		O.2	500	50
[60-29-7]		Diethyl ether		O.2	500	50
[95-92-1]		Diethyloxolate		O.2	500	50
[64-67-5]		Diethyl sulphate	11)	carc.		
[92-52-4]		Difenyl	refer to: bifenyl	sO	refer to: §3.2.4	5/20/50
[101-84-8]		Difenyl ether		sO	refer to: §3.2.4	5/20/50
[101-68-8]		Difenylmethane-4-diisocyanate		sO	refer to: §3.2.4	5/20/50
[75-38-7]	1,1-	Difluorethene		O.2	500	50
[108-46-3]	1,3-	Dihydroxybenzene	90	O.2	500	50
[25167-70-8]		Diiosobutene	refer to: 2,4,4-trinethyl-1-pentene	O.2	500	50
[108-83-3]		Diiosobutylketone	refer to: 2,6-dimethyl-heptane-4-on	O.2	500	50
[84-69-5]		Diiosobutylphtalate	refer to: di(2-methylpropyl)phtalate	O.1	100	20
[267-61-40-0		Diisodecylphtalate		-		
[25321-09-9		Diisopropylbenzene(s)		O.2	500	20
[100-18-5]	o-	Diisopropylbenzene	1) refer to: diisopropylbenzene(s)	O.2	500	50
[99-62-7]	m-	Diisopropylbenzene	refer to: diisopropylbenzene(s)	O.2	500	50
[108-20-3]		Diisopropylether	refer to: 2-isopropoxypropane	O.2	500	50
[127-19-5]	N,N-	Dimethylacetamide	10	O.2	500	50
[627-93-0]		Dimethyladipate		O.1	100	20
[108-01-0]		Dimethylaminoethanol		O.2	500	50
[79-29-8]		Dimenthyl butane		O.2	500	50
[115-10-6]		Dimethyl ether		O.2	500	50
[75-91-2]	1,1-	Dimethylethyl-hydroperoxide		O.1	100	20
[68-12-2]	N,N-	Dimethylformamide	10)	O.2	500	50
[1119-40-0]		Dimethylglutarate	10)	O.1	100	20
[108-83-8]	2,6-	Dimethyl-heptane-4-on		O.2	500	50
[105-67-9]	2,4-	Dimethylphenol		O.2	500	50
[106-65-0]		Dimethylsuccinate		O.1	100	20
[77-78-1]		Dimethylsulphate	11)	carc.		
[84-76-4]		Dinonylphtalate		O.1	100	20
[117-81-7]		Dioctylphtalate	refer to: di(2-ethylhexyl)-phtalate	O.2	500	50
[34590-94-8]		Dipropyleneglycol monomethylether		O.2	500	50
[117-81-7]		DOP	refer to: i(2-ethylhexyl)-phtalate	O.2	500	50
		E				
[106-89-8]		Epichlorohydrine	11)	carc.		
[75-21-8]	1,2-	Epoxyethane	11)	carc.		
[75-56-9]	1,2-	Epoxypropane	11)	carc.		
[107-21-2]	1,2-	Ethanediol		O.2	500	50
[64-17-5]		Ethanol		O.2	500	50
[141-43-5]		Ethanolamine		O.2	500	50
[74-85-1]		Ethene		O.2	500	50
[75-21-8]		Ethene oxide	refer to: 1,2-epoxyethane; 11)	carc.		
[151-56-4]		Ethenimine		O.1	100	20

CAS number		Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m$_0^3$)
[60-29-7]		Ether	refer to: diethylether	O.2	500	50
[1569-02-4]	1-	Ethoxy-2-propanol		O.2	500	50
[19089-47-5]	2-	Ethoxy-1-propanol	2)	O.2	500	50
[111-35-3]	3-	Ethoxy-1-propanol	2)	O.2	500	50
[110-80-5]	2-	Ethoxyethanol	10)	O.2	500	50
[111-15-9]	2-	Ethoxyethalacetate	10)	O.2	500	50
[117955-42-7		Ethoxypropylacetate(s)		O.2	500	50
[141-78-6]		Ethylacetate		O.2	500	50
[97-64-3]		Ethyl-a-hydroxypropionate		O.2	500	50
[100-41-4]		Ethylbenzene		O.2	500	50
[75-00-3]		Ethylchloride	refer to: chloroethane	O.2	500	50
[111-90-0]		Ethyldiglycol		O.2	500	50
[107-21-2]		Ethyleneglycol	refer to: 1,2-ethanediol	O.2	500	50
[110-80-5]		Etheleneglycol monoethylether	refer to: 2-ethoxyethanol	O.2	500	50
[109-86-4]		Etheleneglycol monomethylether	refer to: 2-methoxyethanol	O.2	500	50
[75-21-8]		Ethylene oxide	refer to: 1,2-epoxyethane; 11)	carc.		
[109-94-4]		Ethylformiate		O.2	500	50
[97-64-3]		Ethyllactate	refer to: ethyl-a-hydroxypropionate	O.2	500	50
[78-93-3]		Ethylmethylketone	refer to: 2-butanone	O.2	500	50
[78-10-4]		Ethylsilicate		O.2	500	50
[74-86-2]		Ethyn		O.2	500	50
		F				
[122=99-6]		Fenoxyethanol		O.2	500	50
[...]		Fenoxypropanol		O.2	500	50
[...]		Fluorides, calculated as F		sA.3	10	5.0
[...]		Fluorine and its compounds, calculated as HF		gA.2	15	3.0
[...]		Fluorspar	9)	sA.3	10	5.0
[107-31-3]		Formic methylester	refer to: methylformate	O.2	500	50
[98-00-0]		Furfurylalcohol	refer to: 2-hydroxy-methylfuran	O.2	500	50
		G				
[...]		Glass wool fibres		sA.2	2.5	0.5
[56-81-5]		Glycerol		sO	refer to: §3.2.4	5/20/50
[107-21-2]		Glycol	refer to: 1,2-ethanediol	O.2	500	50
[107-22-2]		Glyoxal	10)	O.1	100	20
[7782-42-5]		Graphite		S	refer to: §3.2.2	5/20/50
		H				
[76-16-4]		Hexafluoroethane	9)	O.2	500	50
[541-05-9]		Hexamethylcyclotrisiloxane(d3)	9)	O.2	500	50
[302-01-2]		Hydrazine (+salts)	11)	carc.		
[...]		Hydrocarbon mixture, aliphatic	12)	O.2	500	50
[...]		Hydrocarbon mixture, aromatic		O.2	500	50
[...]		Hydrocarbons. olefinic		O.2	500	50
[...]		Hydrocarbons. paraffinic		O.2	500	50
[...]		Hydrocarbons, polycyclic aromatic		-		
[74-90-8]		Hydrogen cyanide gas (HCN]	refer to: prussic acid; 10)	gA.2	15	0.3
[123-42-2]	4-	Hydroxy-4-methyl-2-pentanone		O.2	500	50
[98-00-0]	2-	Hydroxymethylfuran		O.2	500	50
		I				
[111-42-2]	2,2'-	Iminodiethanol		O.2	500	50
[1317-61-9]		Iron oxide (Fe3O4)		S	refer to: §3.2.2	5/20/50
[13463-4-6]		Iron pentacarbonyl		sA.1	0.25	0.05
[124-68-5]		Isobutanol-2-amine		O.2	500	50
[115-11-7]		Isobutene	refer to: 2-methylpropene	O.2	500	50
[115-11-7]		Isobutylene	refer to: 2-methylpropene	O.2	500	50
[108-10-1]		Isobutylmethylketone	refer to: 4-methyl-2-pentanone	O.2	500	50
[646-13-9]		Isobutylstereate	9)	O.2	500	50
[103-65-1]		Isocumol	refer to: n-propylbenzene	O.2	500	50
[25339-17-7]		Isodecanol		O.2	500	50
[78-59-1]		Isoforon	refer to: 3.,5,5-trimethyl-2-cyclohexene-1-on	O.2	500	50
[...]		Iso-octyl/nonyl-phenyl-polyglycol ether (with 5 ethylene oxide units)		O.2	500	50
[67-63-0]		Isopropanol	refer to: isopropylalcohol	O.2	500	50
[98-83-9]		Isopropenylbenzene		O.2	500	50
[108-24-4]	2-	Isopropxypropane		O.2	500	50
[108-24-4]		Isopropylacetate		O.2	500	50
[67-63-0]		Isopropylalcohol		O.2	500	50
[98-82-8]		Isopropylbenzene		O.2	500	50
		J				
		K				

CAS number	Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m_0^3)
	L				
[...]	Lead and inorganic lead compounds, calculated as Pb		sA.2	2.5	0.5
[10190-55-3]	Lead molybdate	refer to: lead and its compounds; 10)	sA.2	2.5	0.5
[138-86-3]	Limonene		O.2	500	50
	M				
[108-31-6]	MAA	refer to: maleic anhydride	sO	refer to: §3.2.4	5/20/50
[...]	Magnesium compounds		S	refer to: §3.2.4	5/20/50
[108-31-6]	Maleic anhydride		sO	refer to: §3.2.4	5/20/50
[...]	Manganese (fumes) and manganese compounds, calculated as Mn		sA.3	10	5.0
[101-68-8]	MDI	refer to: diphenylmethane-2,4-diisocyanate	sO.1	refer to: §3.2.4	5/20/50
[78-93-3]	MEK	refer to: 2-butanone	O.2	500	50
[...]	Mercury and inorganic mercury compo	unds, calculated as Mn	7)	sA.1	0.25
	0.05				
	Methane tetrafluoride	9) refer to: carbon tetrafluoride			
[67-56-1]	Methanol		O.2	500	50
[107-98-2] 1-	Methoxy-2-propanol		O.2	500	50
[108-65-6] 1-	Methoxy-2-propylacetate	refer to: methoxypropylacetate(s)	O.2	500	50
[110-66-3]	Methoxybenzene	1)	-		
[109-86-4] 2-	Methoxyethanol	10)	O.2	500	50
[111-77-3] 3-	Methoxyethoxyethanol		O.2	500	50
[110-49-6] 2-	Methoxyethylacetate	10)	O.1	100	20
[1589-47-5] 2-	Methoxypropanol	10)	O.2	500	50
[84540-57-8]	Methoxypropylacetate(s)		O.2	500	50
[117955-40-5	2- Methoxypropylacetate	refer to: methoxypropylacetate(s)	O.2	500	50
[1634-04-4]	Methyl (tert.) butylether (MTBE)		O.2	500	50
[584-84-9] 1-	Methyl-2,4-phenylene-diisocyanate	10)	sO	refer to: §3.2.4	5/20/50
[591-08-7] 1-	Methyl-2,6-phenylene-diisocyanate		sO	refer to: §3.2.4	5/20/50
[563-80-4] 3-	Methyl-2-butanone		O.2	500	50
[110-12-3] 5-	Methyl-hexanone	refer to: methyl-isoamylketone	O.2	500	50
[108-10-1] 4-	Methyl-2-pentanone		O.2	500	50
[75-65-0] 2-	Methyl-2-propanol	refer to: alkylalcohols	O.2	500	50
[620-14-4] 1-	Methyl-3-ethylbenzene		O.2	500	50
[79-16-3] N-	Methylacetamide	10)	O.2	500	50
[79-20-9]	Methylacetate		O.2	500	50
[108-88-3]	Methylbenzene		O.2	500	50
[93-58-3]	Methylbenzoate		sO	refer to: §3.2.4	5/20/50
[74-83-9]	Methylbromide	3)10)	O.1	100	20
[71-55-6]	Methylchloroform	refer to: 1,1,1-trichloroethane	O.2	500	50
[108-87-2]	Methylcyclohexane	refer to: hydrocarbons, paraffinic	O.2	500	50
[1331-33-2]	Methylcyclohexanone		O.2	500	50
[75-09-2]	Methylene chloride	refer to: dichloromethane	O.2	500	50
[78-93-3]	Methylethylketone	refer to: 2-butanone	O.2	500	50
[107-31-3]	Methylformiate	4)	O.3	500	50
[109-86-4]	Methylglycol	refer to: 2-metoxyethanol	O.2	500	50
[110-12-3]	Methylisoamylketone	refer to: 5-methyl-2-hexanone	O.2	500	50
[108-10-1]	Methylisobutylketone	refer to: 4-methyl-2-pentanone	O.2	500	50
[563-80-4]	Methylisopropylketone	refer to: 3-methyl-2-butanone	O.2	500	50
[115-11-7] 2-	Methylpropene		O.2	500	50
[107-87-9]	Methylpropylketone	refer to: 2-pentanone	O.2	500	50
[872-50-4] ɴ-	Methylpyrrolidone		O.2	500	50
[98-83-9] ɑ-	Methylstyrene	refer to: isopropenylbenzene	O.2	500	50
[1634-04-4]	Methyl-tertiary-butylether (MTBE)		O.2	500	50
[108-10-1]	MIBK	refer to: 4-methyl-2-pentanone	O.2	500	50
[...}	Mineral oil [Mixture of hydrocarbons moved under H, Transl.]		O.2	500	50
[...]	Molybdenum and its compounds		S	refer to: §3.2.2	5/20/50
[11-90-0]	Monoethylether acetate		O.2	500	50
	N				
[91-20-3]	Naphthalene [spelling adjusted, Transl]			sO	refer to: §3.2.4
	5/20/50				
[91-20-3]	Naphthaline	refer to: naphthalene	sO	refer to: §3.2.4	5/20/50
[91-59-8] 2-	Naphtylamine (+ salts) [spelling adjusted, Transl.]	11)	carc.		
[...]	Nickel and its compounds, calculated as Ni	11)	carc.		
[7679-37-2]	Nitric acid (mist)		gA.3	150	30
[...]	Nitric oxides, calculated as NO2		gA.5	refer to: §3.2.3	0/100/200/500
[98-95-3]	Nitrobenzene	10)	O.1	100	20
[...]	Nitrocresols		sO	refer to: §3.2.4	5/20/50
[79-24-3]	Nitroethane	4)	O.3	500	100
[7783-54-2]	Nitrogen trifluoride		gA.2	15	3.0
[75-52-5]	Nitromethane	4)	O.3	500	100
[...]	Nitrophenols		sO	refer to: §3.2.4	5/20/50
[79-46-9] 2-	Nitropropane	11)	carc.		
[...]	Nitrotoluene(s)		sO	refer to: §3.2.4	5/20/50

CAS number	Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m_0^3)
	O				
[76-19-7]	Octafluoropropane	9)	O2	500	50
[556-67-2]	Octamethylcyclotetrasiloxane(d4)	4)	O3	500	100
	P				
[...]	PAH	refer to: §3.2.1; 11)	-		
[...]	Palladium and its compounds, calculated as Pd		sA.3	10	5.0
[...]	Particulates		S	refer to: §3.2.	5/20/50
[...]	PCB	refer to: polychlorinated biphenyls	ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	PCDD	refer to: polychlorinated dibenzodioxins	ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	PCDF	refer to: polychlorinated dibenzofurans	ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[109-66-0]	Pentane	refer to: hydrocarbon mixture, aliphatic	O.2	500	50
[109-66-0] 1,2-	Pentanediol	9)	O.2	500	50
[...]	Penta-erythritol and C9-C10 fatty acid, ester of		O.2	500	50
[107-87-9] 2-	Pentanone		O.2	500	50
[96-22-0] 3-	Pentanone		O.2	500	50
[127-18-4]	PER	refer to: tetrachloroethene	O.2	500	50
[127-18-4]	Perchloroethylene	refer to: tetrachloroethene	O.2	500	50
[...]	Petrol		O.2	500	50
[85-01-8]	Phenanthrene		0.1	100	20
[75-44-5]	Phosgene	10)	gA.1	2.5	0.5
[7664-38-2]	Phosphoric acid		gA.2	15	3.0
[7803-51-2]	Phosphorus trihydride (phosphine)		gA.1	2.5	0.5
[85-44-9]	Phthalic anhydride		O.1	refer to: §3.2.4	5/20/50
[...]	Pinenes				
[...]	Platinum and non-water-soluble platinum compounds, calculated as Pt		sA.3	10	5.0
[...]	Platinum compounds, calculated as Pt		sA.1	0.25	0.05
[...]	Polybromine dibenzodioxins		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polybromine dibenzofurans		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polychlorinated biphenyls		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polychlorinated dibenzodioxins		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polychlorinated dibenzofurans		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polyethylene glycol	9)	sO	refer to: §3.2.4	5/20/50
[...]	Polyhalogenated dibenzodioxins		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[...]	Polyhalogenated dibenzofurans		ERS	20 mg TEQ/yr	0.1 ng TEQ/mo3
[25086-15-1]	Polymethylmethacrylate		S	refer to: §3.2.2	5/20/50
[...]	Polyvinyl alcohol		S	refer to: §3.2.2	5/20/50
[24937-79-9]	Polyvinylidene fluoride		S	refer to: §3.2.2	5/20/50
[...]	Portland cement		S	refer to: §3.2.2	5/20/50
[13746-66-2]	Potassium ferricyanide	refer to: cyanides	sA.3	10	5.0
[1310-58-3]	Potassium hydroxide		sA.3	10	5.0
[143-18-0]	Potassium oleate		O.2	500	50
[123-38-6]	Propanal		O.2	500	50
[80-05-7] 2,2-bis (4-hydro xyfen l	Propane		O.1	100	20
[57-55-6] 1,2-	Propanediol		O.2	500	50
[52125-53-8] 1,2-	Propanediol monoethyl ether	refer to: 1-ethoxy-2propanol	O.2	500	50
[79-09-4]	Propanoic acid		O.2	500	50
[67-63-0] 2-	Propanol	refer to: isopropylalcohol	O.2	500	50
[67-64-1]	Propanone		O.2	500	50
[107-13-1]	Propenenitrile	11)	carc.		
[75-56-9]	Propene oxide	refer to: 1,2-epoxypropane; 11)	carc.		
[79-10-7]	Propenoic acid		O.2	100	20
[71-23-8] ɴ-	Propenol		O.2	500	50
[123-38-6]	Propionaldehyde	refer to: propanal	O.2	500	50
[79-09-4	Propionic acid	refer to: propanoic acid	O.2	500	50
[1569-01-3] 1-	Propoxy-2-propanol	1)	-		
[109-60-4] ɴ-	Propylacetate		O.2	500	50
[108-21-4] ᵢ-	Propylacetate		O.2	500	50
[103-65-1] ɴ-	Propylbenzene		O.2	500	50
[57-55-6]	Propyleneglycol	refer to: 1,2-propanediol	O.2	500	50
[75-56-9]	Propylene oxide	refer to: 1,2-epoxypropane; 11)	carc.		
[74-90-8]	Prussic acid (HCN) [omitted in the previous version, Transl.]		gA.2	15	3.0
	Q				
[...]	Quartz as respirable particulate with the exception of the silicon fibres mentioned in §3.2.2	refer to: silica; 11)	sA.2	2.5	0.5

CAS number	Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m_0^3)
	R				
[108-46-3]	Recorcinol		O.2	500	50
[...]	Rhodium and non-water-soluble rhodium compounds, calculated as Rh		sA.2	2.5	0.5
[...]	Rhodium compounds, calculated as Rh		sA.1	0.25	0.05
	Rock wool fibres				
	S				
[...]	Sand and other silicon compounds, with the exception of crystalline and/ or fibrous compounds		S	refer to: §3.2.2	5/20/50
[...]	Selenium and its compounds, calculated as Se		sA.2	2.5	0.5
[...]	Silica fibres, especially cristoballite and tridymite	11)	sA.1	0.25	0.05
[...]	Silica (quartz) as respirable particulate, with the exception of the silica fibres mentioned in §3.2.2	11)	sA.2	2.5	0.5
[68611-44-9]					
[6-842-32-2]	Silicon dioxide (amorphous)		S	refer to: §3.2.2	5/20/50
[10026-04-7]	Silicon tetrachloride		gA.3	150	30
[...]	Silicon tetrafluoride		gA.2	15	3.0
[...]	Silicon tetrahydride		gA.2	15	3.0
[63148-62-9]	Silicon oil		O.2	500	50
[...]	Silver and its compounds, calculated as Ag		sA.1	0.25	0.05
[...]	Slag wool fibres		sA.2	2.5	0.5
[1310-73-2]	Sodium hydroxide		sA.3	10	5.0
[...]	Sorbitolhexaoleate, ethoxylated	9)	O.2	500	50
[100-42-5]	Styrene	refer to: vinyl benzene	O.2	500	50
[...]	Sulphur oxides, calculated as SO2		gA.4	refer to: §3.2.3	50/200
[7664-93-9]	Sulphuric acid		gA.2	15	3.0
	T				
[7440-25-7]	Tantalium	9)	sA.3	10	5.0
[584-84-9]	TDI	refer to: 2-methyl-1,4-phenylene-diissocyanate	sO	refer to: §3.2.4	5/20/50
[...]	Tellurium and its compounds, calculated as Te		sA.2	2.5	0.5
[100-21-0]	Terephthalic acid	refer to: benzene-1,4-dicarbon acid	-		
[98-55-5]	_- Terpinol		O.2	500	50
[56-23-5]	TETRA	refer to: tetrachloromethane	O.1	100	20
[79-27-6]	1,1,2,2- Tetrabromomethane	10)	O.1	100	20
[79-34-5]	1,1,2,2- Tetrachloroethane	10)	O.1	100	20
[127-18-4]	Tetrachloroethene [listed as tetrachloroethelylene in the previous version, Transl.]		O.2	500	50
[56-23-5]	Tetrachlorocarbon	refer to: tetrachloromethane	O.1	100	20
[56-23-5]	Tetrachloromethane	3) 10)	O.1	100	20
[78-10-4]	Tetraethylorthosilicate		O.2	500	50
[116-14-3]	Tetrafluoroethene	1)	-		
[75-73-0]	Tetrafluoromethane	9)	O.2	500	50
[106-99-9]	Tetrahydrofuran		O.2	500	50
[119-64-2]	1,2,3,4- Tetrahydronapthalene		O.2	500	50
[119-64-2]	Tetraline	refer to: 1,2,3,4-tetrahydronapthalene	O.2	500	50
[488-23-3]	1,2,,3,4-Tetramethyl benzene		O.2	500	50
[527-53-7]	1,2,,3,5-Tetramethyl benzene		O.2	500	50
[95-93-2]	1,2,,3,5-Tetramethyl benzene		O.2	500	50
[...]	Thallium and its compounds, calculated as Tl		sA.1	0.25	0.05
[75-18-3]	Thiobismethane	9)	O.1	100	20
[...]	Tin and inorganic tin compounds, calculated as Sn		sA.3	10	5.0
13463-67-7]	Titanium dioxide		S	refer to: §3.2.2	5/20/50
[108-88-3]	Toluene	refer to: methylbenzene	O.2	500	50
[584-84-9]	Toluene-2,4-diisocyanate	refer to: 1-methyl-2,4-phenylene-diisocyanate	sO	refer to: §3.2.4	5/20/50
[91-08-7]	Toluene-2,6-diisocyanate	refer to: 1-methyl-2,6-phenylene-diisocyanate	sO	refer to: §3.2.4	5/20/50
[95-53-4]	ɔ- Toluidine	refer to: 2-methylaniline 10)	O.1	100	20
[79-01-6]	TRIrefer to: trichloroethene	O.2	500	50	
[71-55-6]	1,1,1-Trichloroethane	3) 4)	O.3	500	100
[79-01-6]	1,1,1-Trichloroethene	10)	O.2	500	100

CAS number	Name of substance	Remark	Class	Mass flow limit (g/hour)	Emission standard (mg/m_0^3)
[10025-78-2]	Trichlorosilane		gA.3	150	30
[112-70-9]	Tridecanol (mixture of isomers)		O.2	500	50
[112-70-9]	Tridecyl alcohol		O.2	500	50
[15468-32-3]	Tridymite		sA.1	0.25	0.05
[102-71-6]	Triethanolamine		O2	500	50
[112-24-3]	Triethylene tetramine		O.2	500	50
[75-46-7]	Trifluoromethane	9)	O.2	500	50
[...]	Trimethyl benzene		O.2	500	50
[25167-70-8]	2,4,4-Trimethyl-1-pentene		O.2	500	50
[78-59-1]	3,5,5-Trimethyl-2-cyclohexene-1-on		O.2	500	50
[...]	Trimethylbromate	9)	O.2	500	50
[110-88-3]	1,3,5-Trioxane	4)	O.3	500	100
[115086-6]	Triphenylphosphate		O.1	100	20
[...]	Tris(2,4-dibromophenyl) phosphate	1)	-		
[90-72-2]	Tris(dimethylamino methyl) phenol	1)	-		
	U				
	V				
[...]	Vanadium, vanadium alloys and vanadium carbide, calculated as V		sA.3	10	5.0
[...]	Vanadium compounds, especially vanadium oxides, halides, sulphates and vanadates, calculated as V		sA.1	0.25	0.05
[...]	Vegetable oil, sulphated		O.2	500	50
[108-05-4]	Vinyl acetate		O.2	500	50
[100-42-5]	Vinyl benzene		O.2	500	50
[75-01-4]	Vinyl chloride	11)	carc.		
[75-38-7]	Vinylidene fluoride	refer to: 1,1-difluoroethene	O.2	500	50
	W				
[64475-85-0]	White spirit	refer to: hydrocarbon mixture, aliphatic	O.2	500	50
	Wood dust (particles < 10 mm)		S	refer to: §3.2.2	5/20/50
	X				
[...}	Xylenes		O.2	500	50
[105-67-9]	2,4- Xylenol	refer to: 2,4-dimethylphenol	O.2	500	50
[1300-71-6]	Xylenols with the exception of 2,4-xylenol		O.1	100	20
	Y				
[7440-65-5]	Ytrium	9)	sA.3	10	5.0
[1314-36-9]	Ytrium oxide	9)	sA.3	10	5.0
	Z				
[...]	Zinc and its compounds with the exception of zinc chromate [13530-65-9] and zinc chloride (fume) [7646-85-7]		S	refer to: §3.2.2	5/20/50
[7646-85-7]	Zinc chloride (fume)		sA.3	10	5.0
[557-05-1]	Zinc stearate		S	refer to: §3.2.2	5/20/50
[7440-67-7]	Zirconium	9)	S	refer to: §3.2.2	5/20/50
[12036-01-0]	Zirconium oxide	9)	S	refer to: §3.2.2	5/20/50

1) Insufficient (toxicological) information is available to allow classification of this substance.
2) This substance is classified on the basis of toxicological information on 1-ethoxy-2-propanol.
3) Refer also to: Regulation no. 2037/2000 of 29 June 2000 on substances that deplete the ozone layer, published 29 September 2000 (publication L244).
4) This classification is based on exceptions in TA-luft.
5) due to an EU directive this substance needs a more strickt emission value than sA.1
6) in the PAH criteria assessment document this substance is listed as carcinogenic (RIVM report 758474007)
7) likely carcinogenic
8) Carcinogenic
9) Provisional classification
10) Concerning this substance it is known that it will probably be classed in the category Very High Concern. As a result, the substance will most likely be subject to compulsory minimisation. The list of examples with compulsory minimisation substances will be made available in mid-2003; for the requirements see §3.2.1.
11) This substance is subject to compulsory minimisation on the basis of the classification in the old NeR. In mid-2003 a list of examples will be made available with substances that are subject to compulsory minimisation; for the requirements see §3.2.1.
12) Methane (CH4) is not included in the determination of the total quantity of aliphatic hydrocarbons.