

Important information

The tables "Chemical resistance of plastics", "Plastics and their properties" as well as the information about chemical resistance given in the particular product descriptions have been drawn up based on information provided by various raw material manufacturers. These values are based solely on laboratory tests with raw materials. Plastic components produced from these raw materials are frequently subject to influences that cannot be recognized in laboratory tests (temperature, pressure, material stress, effects of chemicals, construction features, etc.). For this reason the values given are only to be regarded as being guidelines. In critical cases it is essential that a test is carried out first. No legal claims can be derived from this information; nor do we accept any liability for it. Knowledge of the chemical and mechanical resistance alone is not sufficient for the evaluation of the usability of a product. For example, the regulations concerning flammable liquids (explosion prevention) must also be taken into consideration.

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Key

Chemical resistance

Two values are given per substance
left number = value at +20°C / right number = value at +50°C..

0	no data available
1	resistant
2	practically resistant
3	partially resistant
4	non-resistant
K	no general information available
()	estimated value

Hazard notes

E	explosive
O	oxidizing
F	highly flammable
F+	extremely flammable
T	toxic
T+	very toxic
C	corrosive
Xn	harmful
Xi	irritant
N	dangerous to the environment

Material

HDPE	Polyethylene (high density)
LDPE	Polyethylene (low density)
CAS-NO.	International numerical identifier for every known chemical assigned by the "Chemical Abstracts Service".

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Acetaldehyde	C ₂ H ₄ O	000075-07-0	40 %	F+, Xn	X	3/3	2/4 Acetic aldehyde; Ethanal; Ethyl aldehyde
Acetaldehyde	C ₂ H ₄ O	000075-07-0	techn. pure	F+, Xn	X	3/3	2/4
Acetamide	C ₂ H ₅ NO	000060-35-5	saturated	Xn		1/1	1/1
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	50 %	C		1/1	1/1
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	100 %	C+	X	0/0	0/0
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	90%	C+	X	1/1	1/2
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	10 %	Xi		1/1	1/1
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	5 %	Xi		1/1	1/3
Acetic acid chloride	-> see: Acetyl chloride						
Acetic acid sodium salt	-> see: Sodium acetate						
Acetic aldehyde	-> see: Acetaldehyde						
Acetic anhydride	C ₄ H ₆ O ₃	000108-24-7	techn. pure	C	X	4/4	3/3
Acetic chloride	-> see: Acetyl chloride						
Acetone	C ₃ H ₆ O	000067-64-1		F, Xi	X	1/1	3/3 Propanone, 2-; Dimethyl ketone; Methyl ketone
Acetonitrile	C ₂ H ₃ N	000075-05-8		F, T	X	1/1	1/1 Methyl cyanide; Cyanomethane; Ethanenitrile
Acetonyl chloride	-> see: Chloroacetone						
Acetophenone	C ₈ H ₈ O	000098-86-2		Xn		0/0	1/0 Phenylethanone, 1-; Phenyl methyl ketone; Acetylbenzene
Acetyl chloride	C ₂ H ₃ ClO	000075-36-5	100 %	F, C	X	0/0	0/0 Acetic chloride; Ethanoyl chloride; Acetic acid chloride
Acetylene	C ₂ H ₂	000074-86-2	100 %	F+	X	1/0	1/0 Ethine; Ethyne
Acetyloxybenzoic acid, 2-	-> see: Acetylsalicylic acid						
Acetylsalicylic acid	C ₉ H ₈ O ₄	000050-78-2	100 %	Xn		0/0	0/0 Acetyloxybenzoic acid, 2-;
Acrylonitrile	C ₃ H ₃ N	000107-13-1		F, T	X	1/1	1/3 Cyanoethylene; Propenenitrile, 2-; Vinyl cyanide
Adipic acid	C ₆ H ₁₀ O ₄	000124-04-9	saturated	Xi		1/1	1/2 Hexanedioic acid; Butanedicarboxylic acid, 1,4-
Alanine, L-	C ₃ H ₇ NO ₂	000056-41-7		—		1/1	1/1 Aminopropanoic acid, L-2; aminopropanoic acid, alpha-
Allspice	—	—	ground	?		0/0	0/0
Allyl acetate	C ₅ H ₈ O ₂	000591-87-7	100 %	F, T	X	0/0	1/3
Allyl alcohol	C ₃ H ₆ O	000107-18-6	96 %	F, T	X	1/3	3/3 Vinyl carbinol; Propenyl alcohol
Allyl chloride	C ₃ H ₅ Cl	000107-05-1	100 %	F, T+	X	(3)	3/4 Chloro-1-propene, 3-; Chloropropylene, 3-
Allyl mustard oil	C ₄ H ₅ NS	000057-06-7		T	X	0/0	0/0 oleum sinapis
Almond oil, sweet	—	008007-69-0		—		0/0	0/0
Alumina acidic	C ₄ H ₇ AlO ₅ x H ₂ O	000142-03-0	saturated	Xi		1/1	1/0
Aluminium fluoride	AlF ₃	007789-18-1	aqueous	Xi		1/1	1/1
Aluminum ammonium sulfate dodecahydrate	(NH ₄)Al(SO ₄) ₂	007784-26-1	saturated	Xi		1/1	1/1
Aluminum chloride	AlCl ₃	007784-13-6	10 %	?		1/1	1/2
Aluminum chloride	AlCl ₃	007784-13-6	solid	C		1/1	1/1
Aluminum chloride	AlCl ₃	007784-13-6	saturated	C		1/1	1/1
Aluminum hydroxide	Al(OH) ₃	021645-51-2		Xi		1/1	1/2 small solubility - no chemical effect expected
Aluminum nitrate	Al(NO ₃) ₃	013473-90-0	aqueous	(O)		1/1	1/0
Aluminum oxide, alpha-	Al ₂ O ₃	001344-28-1	solid	—		1/1	1/1 small solubility - no chemical effect expected
Aluminum potassium sulfate	KAl(SO ₄) ₂ x 12H ₂ O	010043-67-1	diluted	Xi		1/1	1/1
Aluminum potassium sulfate	KAl(SO ₄) ₂ x 12H ₂ O	010043-67-1	saturated	Xi		1/1	1/1
Aluminum sodium sulfate	NaAl(SO ₄) ₂	010102-71-3		?		1/1	1/1
Aluminum sulfate	Al ₂ (SO ₄) ₃	010043-01-3	10 %	?		1/1	1/1
Aluminum sulfate	Al ₂ (SO ₄) ₃	010043-01-3	saturated	Xn		1/1	1/1
Aminic acid	-> see: Formic acid						
Aminoacetic acid	-> see: Glycine						

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT	
Aminoethanol	C ₂ H ₇ NO	000141-43-5		Xn/Xi	0/0	0/0		
Aminopropanoic acid, alpha	-> see: Alanine, L-							
Ammonium acetate	C ₂ H ₇ NO ₂	000631-61-8	saturated	Xi	1/1	1/1		
Ammonium bicarbonate	CH ₅ NO ₃	001066-33-7	saturated	Xi	1/1	1/1		
Ammonium bisulfide	(NH ₄)HS	012124-99-1	each	T, C	1/1	1/1	Ammonium hydrogen sulfide; Ammonium hydrosulfide; Ammonium sulfhydrate; Ammonium mercaptan	
Ammonium carbonate	(NH ₄) ₂ CO ₃	010361-29-2	50 %	Xn	1/1	1/1		
Ammonium carbonate	(NH ₄) ₂ CO ₃	010361-29-2	aqueous	Xn	1/1	1/1		
Ammonium chloride	(NH ₄)Cl	012125-02-9	solid	Xn	1/1	1/1	sal ammoniac	
Ammonium chloride	(NH ₄)Cl	012125-02-9	aqueous	Xn	1/1	1/1	sal ammoniac	
Ammonium difluoride	F ₂ H ₅ N	001341-49-7	50 %	T, C	1/1	1/1		
Ammonium ferric sulfate	(NH ₄)Fe(SO ₄) ₂	007783-83-7	saturated	Xi	1/1	1/1		
Ammonium ferrous sulfate	(NH ₄) ₂ Fe(SO ₄) ₂	007783-85-9		Xi	1/1	1/1		
Ammonium fluoride	(NH ₄)F	012125-01-8	saturated	T, C	1/1	1/1		
Ammonium fluoride	(NH ₄)F	012125-01-8	aqueous	T, C	1/1	1/1		
Ammonium glycolate	C ₂ H ₇ NO ₃	035249-89-9		(Xi)	1/1	1/2	Acetic acid	
Ammonium heptamolybdate	(NH ₄) ₆ Mo ₇ O ₂₄	012054-85-2		Xi	1/1	1/1		
Ammonium hydroxide	NH ₃ + H ₂ O	001336-21-6	30 %	C, N	1/1	1/2		
Ammonium hydroxide	NH ₃ + H ₂ O	001336-21-6	5 %	Xi	1/1	1/1		
Ammonium hydroxide	NH ₃ + H ₂ O	001336-21-6		C/Xi, N	1/1	1/1		
Ammonium mercaptan	-> see: Ammonium bisulfide							
Ammonium nitrate	(NH ₄)NO ₃	006484-52-2	10 %	O	1/3	0/0	Nitric acid; Ammonium salt	
Ammonium nitrate	(NH ₄)NO ₃	006484-52-2	saturated	O	1/3	1/1		
Ammonium nitrite	(NH ₄)NO ₂	013446-48-5	aqueous	O, Xn	(1)	(1)		
Ammonium oxalate	C ₂ H ₆ N ₂ O ₄	014258-49-2		Xn	1/1	1/2		
Ammonium persulfate	(NH ₄) ₂ S ₂ O ₈	007727-54-0	saturated	O, Xn	0/0	0/0		
Ammonium persulfate	(NH ₄) ₂ S ₂ O ₈	007727-54-0	aqueous	O, Xn	0/0	0/0		
Ammonium phosphate, Mono-	(NH ₄)H ₂ PO ₄	007722-76-1	each	Xi	1/1	1/1		
Ammonium polyphosphate (APP)	(NH ₄ PO ₃) _n	068333-79-9		Xi	1/1	1/1		
Ammonium rhodanide	-> see: Ammonium thiocyanate							
Ammonium salt	-> see: Ammonium nitrate							
Ammonium sulfate	(NH ₄) ₂ SO ₄	007783-20-2	10 %	Xn	1/1	1/1		
Ammonium sulfate	(NH ₄) ₂ SO ₄	007783-20-2	saturated	Xn	1/1	1/1		
Ammonium sulfide	(NH ₄) ₂ S	012135-76-1	each	T, C	X	1/1	1/1	Diammonium sulfide;
Ammonium sulfide	(NH ₄) ₂ S	012135-76-1	aqueous	T, C	X	1/1	1/1	
Ammonium sulfocyanide	-> see: Ammonium thiocyanate							
Ammonium thiocyanate	CH ₄ N ₂ S	001762-95-4		Xn	1/1	1/1	Ammonium sulfocyanide; Ammonium rhodanide; Thiocyanic acid, Ammonium salt; Ammonium sulfocyanate	
Amomum	—	—		?	0/0	0/0		
Amyl acetate, normal	C ₇ H ₁₁ O ₂	000628-63-7		—	X	1/2	2/3	
Amyl alcohol, n-	-> see: Pentanol, 1-							
Amyl chloride	C ₅ H ₁₁ Cl	000543-59-9		F, Xn	X	3/4	4/4	
Amyl cinnamic aldehyde	C ₁₄ H ₁₈ O	000122-40-7		Xi	0/0	0/0	odoriferous substance	
Aniline	C ₆ H ₇ N	000062-53-3		T	1/2	1/3		
Aniline hydrochloride	C ₆ H ₃ ClN	000142-04-1	saturated	T	1/3	0/0		
Anise	—	—		?	0/0	0/0		
Anise oil	—	084775-42-8		Xi	0/0	0/0		
Anisole	C ₇ H ₈ O	000100-66-3	100 %	Xi	X	1/4	3/4	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Antifreeze agent (car)	—	—	—	Xn	1/1	1/1	glycol-water-mixture
Antimony pentachloride	SbCl ₅	007647-18-9	—	C	0/0	0/0	
Antimony trichloride	SbCl ₃	010025-91-9	90 %	C	1/1	1/1	
Antimony trichloride	SbCl ₃	010025-91-9	anhydrous	C	0/0	0/0	
Antimony trichloride	SbCl ₃	010025-91-9	aqueous	C	0/0	0/0	
Apple juice	—	—	—	—	1/1	1/1	
Arsenic acid	H ₃ AsO ₄	022538-92-7	aqueous	T, N	1/1	0/2	
Arsenic acid	H ₃ AsO ₄	022538-92-7	—	T, N	1/1	0/2	
Arsenic pentoxide	As ₂ O ₅	001303-28-2	—	T, N	1/1	1/1	
Ascorbic acid	C ₆ H ₈ O ₆	000050-81-7	aqueous	—	1/1	1/1	
Atropine sulfate	C ₃₄ H ₄₈ N ₂ SO ₁₀ ·H ₂ O	000055-48-1	—	T+	1/1	1/1	
Azabenzene	-> see: Pyridine						
Azacyclohexane	-> see: Piperidine						
Azine	-> see: Pyridine						
Azole	-> see: Pyrrole						
Barium carbonate	BaCO ₃	000513-77-9	saturated	Xn	1/1	1/1	small solubility - no chemical effect expected
Barium chloride	BaCl ₂	010361-37-2	saturated	T	1/1	1/1	
Barium chloride	BaCl ₂	010361-37-2	aqueous	T	1/1	1/1	
Barium dibromide	BaBr ₂	010553-31-8	—	Xn	1/1	1/1	
Barium hydroxide	Ba(OH) ₂	012230-71-6	saturated	Xn	1/1	1/1	
Barium hydroxide	Ba(OH) ₂	012230-71-6	aqueous	Xn	1/1	1/1	
Barium sulfide	BaS	021109-95-5	saturated	(T)	1/1	1/1	
Battery acid	H ₂ SO ₄	007664-93-9	38 %	C	1/1	1/1	Sulfuric acid;
Beef tallow	—	061789-97-7	—	—	0/0	0/0	
Beef tallow emulsion	—	—	sulfonated	(—)	1/0	0/0	
Beer	—	—	—	—	1/1	1/1	
Beeswax	—	008012-89-3	—	—	1/1	1/1	
Benzaldehyde	C ₇ H ₆ O	000100-52-7	—	Xn	1/3	3/3	artificial almond oil
Benzene	C ₆ H ₆	000071-43-2	—	F, T	X	3/4	3/4 Cyclohexatriene; Benzol
Benzene chloride	-> see: Chlorobenzene						
Benzenesulfonic acid	C ₆ H ₆ SO ₃	000098-11-3	saturated	C	1/1	1/1	
Benzoic acid	C ₇ H ₆ O ₂	000065-85-0	saturated	Xn, Xi	1/1	1/1	
Benzoic acid	C ₇ H ₆ O ₂	000065-85-0	aqueous	Xn, Xi	1/1	1/1	
Benzoic acid chloride	-> see: Benzoyl chloride						
Benzoyl chloride	C ₇ H ₅ ClO	000098-88-4	100 %	C	0/0	3/3	Benzenecarbonyl chloride; Benzoic acid chloride
Benzyl acetate	C ₉ H ₁₀ O ₂	000140-11-4	—	Xn/Xi	1/1	1/2	
Benzyl alcohol	C ₇ H ₈ O	000100-51-6	—	Xn	3/4	4/4	
Benzyl benzoate	C ₁₄ H ₁₂ O ₂	000120-51-4	—	Xn	0/0	0/0	
Benzyl chloride	C ₇ H ₇ Cl	000100-44-7	100 %	T/Xi	0/0	4/4	
Benzyl ether	C ₁₄ H ₁₄ O	000103-50-4	—	Xi	0/0	0/0	
Bismuth chloride	BiCl ₃	007787-60-2	—	Xi	1/1	1/1	
Bismuth nitrate, basic	Bi ₅ O(HO) ₉ (NO ₃) ₄	001304-85-4	—	O, Xi	1/1	1/1	
Bisulfite solution	NaHSO ₃	??	—	Xn	1/1	1/1	
Bisulfite solution, containing SO ₂	NaHSO ₃	??	saturated	Xn	1/1	1/1	
Bitter almond oil	C ₇ H ₆ O	090320-35-7	—	Xn	1/3	3/3	mainly: benzaldehyde
Bitumen	—	008052-42-4	—	—	0/0	0/0	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Bone oil	—	008001-85-2		—	0/0	0/0	
Boric acid	H ₃ BO ₃	010043-35-3	10 %	Xi	1/1	1/1	
Boric acid	H ₃ BO ₃	010043-35-3	aqueous	Xi	1/1	1/1	
Brake fluid	—	—		?	1/0	1/0	
Bromic acid	HBrO ₃	007789-31-3	concentrated	C	0/0	0/0	
Bromine	Br ₂	007726-95-6		T+, C	4/4	4/4	
Bromine pentafluoride	BrF ₅	007789-30-2		F, T, C	0/0	0/0	
Bromine steams	Br ₂	007726-95-6		T	(4)	(4)	
Bromine trifluoride	BrF ₃	007787-71-5		T, C	0/0	0/0	
Bromine water	Br ₂ +H ₂ O	007726-95-6	saturated	T	4/4	4/4	
Bromobenzene	C ₆ H ₅ Br	000108-86-1		Xn	X	3/4	4/4
Bromochloromethane	CH ₂ BrCl	000074-97-5	100 %	Xn	(4)	(4)	
Bromotrifluoromethane	CBrF ₃	000075-63-8		N	0/0	0/0	
Butadiene, 1,3-	C ₄ H ₆	000106-99-0		F+, T	X	3/4	4/4
Butanal	-> see: Butyraldehyde						
Butane	C ₄ H ₁₀	000106-97-8	techn. pure	F+	X	1/0	1/1
Butanedicarboxylic acid, 1,4-	-> see: Adipic acid						
Butanetriol	C ₄ H ₁₀ O ₃	—	100 %	—	(4)	1/1	isomer not indicated in the source
Butanol	-> see: Butyl alcohol, normal						
Butene	C ₄ H ₈	—	techn. pure	F+	X	4/4	0/0 isomer not indicated in the source
Butoxybutane, 1-	-> see: Butyl ether, (Di-) n-						
Butter	—	—		—	1/0	1/0	
Butyl acetate, normal	C ₈ H ₁₆ O ₂	000123-86-4	100 %	—	X	2/2	2/3
Butyl acrylate	C ₇ H ₁₂ O ₂	000141-32-2	100 %	Xi	X	1/2	2/3
Butyl alcohol, normal	C ₄ H ₁₀ O	000071-36-3	techn. pure	Xn	X	1/1	1/3 Propyl carbinol; Butanol
Butyl alcohol, sec-	C ₄ H ₁₀ O	000078-92-2		Xn	X	1/1	1/2 Butanol, -2; Methyl ethyl carbinol; Butylene hydrate
Butyl alcohol, tert-	C ₄ H ₁₀ O	000075-65-0		F, Xn	X	1/1	1/2
Butyl aldehyde	-> see: Butyraldehyde						
Butyl carbinol, n-	-> see: Pentanol, 1-						
Butyl ether, (Di-) n-	C ₈ H ₁₈ O	000142-96-1	techn. pure	Xi	X	3/4	1/4 Butoxybutane, 1-;
Butyl ethylene	-> see: Hexene, 1-						
Butyl stearate	C ₂₂ H ₄₄ O ₂	000123-95-5	100 %	Xi	0/0	0/0	
Butylamine	C ₄ H ₁₁ N	000109-73-9		F, C	X	0/0	0/0
Butylene glycol	C ₄ H ₁₀ O ₂	—	techn. pure	—	1/1	1/1	isomer not indicated in the source
Butylene hydrate	-> see: Butyl alcohol, sec-						
Butylphenol	C ₁₀ H ₁₄ O	—	100 %	Xi	0/0	1/1	isomer not indicated in the source
Butylphenol, p-tert	C ₁₁ H ₁₆ NO	000098-54-4	techn. pure	C, Xn	3/0	0/0	
Butyraldehyde	C ₄ H ₈ O	000123-72-8		F, Xn	X	0/0	0/0 Butanal; Butyl aldehyde
Butyric acid	C ₄ H ₈ O ₂	000107-92-6		C	3/4	4/4	
Cadmium bromide	CdBr	007789-42-6		T	1/1	1/1	
Calcium bicarbonate	Ca(HCO ₃) ₂	—	saturated	—	1/1	1/1	
Calcium bisulfite	Ca(HSO ₃) ₂	013780-03-5	saturated	Xn	1/1	1/1	
Calcium bisulfite	Ca(HSO ₃) ₂	013780-03-5	aqueous	Xn	1/1	1/1	
Calcium bromide	CaBr ₂	007789-41-5		?	1/1	1/1	
Calcium carbide	CaC ₂	000075-20-7		F	X	1/1	1/1 carbid, reacts with water to acetylene - highly flammable!
Calcium carbonate	CaCO ₃	000471-34-1	saturated	—	1/1	1/1	small solubility - no chemical effect expected

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Calcium chlorate	Ca(ClO ₃) ₂	010137-74-3	saturated	O, (T)	0/0	0/0	
Calcium chloride	CaCl ₂	010043-52-4	alcoholic	F, Xi	1/0	0/0	
Calcium chloride	CaCl ₂	010043-52-4	aqueous	Xi	1/1	1/1	
Calcium hydroxyde	CaH ₂ O ₂	001305-62-0	aqueous (Xi)		1/1	1/1	
Calcium hydroxyde	CaH ₂ O ₂	001305-62-0	concentrated	C	1/1	1/1	
Calcium hypochlorite	Ca(OCl) ₂	007778-54-3	saturated	O, C	1/1	1/1	bleaching powder
Calcium hypochlorite	Ca(OCl) ₂	007778-54-3	aqueous	O, C/Xi	0/0	0/0	bleaching powder
Calcium nitrate	Ca(NO ₃) ₂	010124-37-5	50 %	O	1/1	1/1	
Calcium nitrate	Ca(NO ₃) ₂	010124-37-5	aqueous	O	1/1	1/1	
Calcium oxide	CaO	001305-78-8	powder	C	1/0	1/1	
Calcium phosphate	Ca ₃ (PO ₄) ₂	007758-87-4	aqueous	—	1/1	1/1	small solubility - no chemical effect expected
Calcium phosphate	Ca ₃ (PO ₄) ₂	007758-87-4		—	1/1	1/1	small solubility - no chemical effect expected
Calcium sulfate	CaSO ₄	007778-18-9	saturated	—	1/1	1/1	plaster
Calcium sulfide	CaS	020548-54-3	aqueous	C	0/0	0/0	
Calcium sulfide	CaS	020548-54-3		C	0/0	3/3	
Calciumacetat	C ₄ H ₆ CaO ₄	000062-54-4	aqueous	—	1/1	1/1	
Camphor	C ₁₀ H ₁₆ O	000464-48-2 / -49-2		F, Xn	X	3/4	3/4
Camphor oil	—	008008-51-3		Xn		4/4	4/4 from cinnamomum camphora
Caprylic alcohol	C ₈ H ₁₈ O	000111-87-5		Xi		0/0	0/0
Caraway	—	—	ground	?		0/0	0/0
Carbazole	C ₁₂ H ₉ N	000086-74-8		Xn		1/1	1/1
Carbolineum	—	008001-58-9	aqueous	(Xn)		1/0	1/0 Creosote;
Carbon dioxide	CO ₂	000124-38-9	saturated	?		1/3	1/1
Carbon dioxide, damp	CO ₂	000124-38-9	techn. pure	?		1/1	1/1
Carbon dioxide, dry	CO ₂	000124-38-9	techn. pure	?		1/1	1/1
Carbon disulfide	CS ₂	000075-15-0		F+, T	X	4/4	4/4
Carbon tetrabromide	CBr ₄	000558-13-4		Xn, Xi		0/0	0/0
Carbon tetrachloride (TETRA)	CCl ₄	000056-23-5		T		4/4	4/4
Carbon tetrafluoride	CF ₄	000075-73-0		?		0/0	0/0
Carbonyl chloride	-> see: Phosgene						
Carnauba wax	—	008015-86-9		—		1/1	1/1
Castor oil	—	008001-79-4	100 %	Xi		1/1	1/1
Caustic potash	-> see: Potassium hydroxide						
Cedar wood oil	—	008000-27-9		?		3/4	4/4
Cesium bromide	CsBr	007787-69-1		Xi		1/1	1/1
Cetyl alcohol	C ₁₆ H ₃₄ O	036653-82-4	100 %	Xi		1/1	1/1
Chalk	CaCO ₃	—		—		1/1	1/1 calcium carbonate
Chloral hydrate	C ₂ H ₃ Cl ₃ O ₂	000302-17-0	techn. pure	T/Xi		3/3	3/3
Chloramine-T	C ₇ H ₇ ClNaNSO ₂	000127-65-1	diluted	Xi		1/0	1/0
Chloric acid	HClO ₃	007790-93-4	1 %	(C)		0/0	1/1
Chloric acid	HClO ₃	007790-93-4	10 %	(O), C		1/0	0/0
Chloric acid	HClO ₃	007790-93-4	20 %	(O), C		3/0	1/4
Chloric acid, sodium salt	-> see: Sodium chlorate						
Chlorine	Cl ₂	007782-50-5	10 % wet	T		3/4	3/4
Chlorine	Cl ₂	007782-50-5	97 %	T		4/4	4/4
Chlorine	Cl ₂	007782-50-5	steam	T		4/4	4/4

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Chlorine dioxide	ClO ₂	010049-04-4		E, T	0/0	0/0	
Chlorine trifluoride	ClF ₃	007790-91-2		(O, T)	0/0	0/0	
Chlorine water	Cl ₂ x H ₂ O	007782-50-5		(T)	3/0	0/4	
Chloro acetophenone, p-	C ₈ H ₇ ClO	000099-91-2		(Xn)	1/1	1/1	
Chloro-1-propene, 3-	-> see: Allyl chloride						
Chloro-2-propanone, 1-	-> see: Chloroacetone						
Chloroacetic acid	C ₂ H ₃ ClO ₂	000079-11-8	50 %	T, C	1/3	1/3	
Chloroacetic acid	C ₂ H ₃ ClO ₂	000079-11-8		T, C	1/1	1/1	
Chloroacetone	C ₃ H ₅ ClO	000078-95-5		(F, Xi)	X	0/0	Chloro-2-propanone, 1-; Acetyl chloride; Monochloroacetone
Chlorobenzene	C ₆ H ₅ Cl	000108-90-7		Xn	X	3/4	Benzene chloride; Chlorobenzol; Monochlorobenzene (MCB); Phenyl chloride
Chlorodifluoroethane	C ₂ H ₂ ClF ₂	000075-68-3		?	0/0	0/0	
Chlorodifluoromethane	CHClF ₂	000075-45-6		N, Xn	0/0	3/0	R 22
Chloroethane, 1-	-> see: Monochloroethane						
Chloroethyl alcohol, 2-	C ₂ H ₅ ClO	000107-07-3	techn. pure	T+	1/1	0/0	
Chloroethylene	-> see: Vinyl chloride (VCM)						
Chlorofluorocarbons (CFC)	—	—		N	0/0	0/0	resistance depends on type
Chlorofluoromethane	CH ₂ ClF	000593-70-4		N	0/0	0/0	
Chloroform	CHCl ₃	000067-66-3	100 %	Xn	3/4	4/4	
Chloroformyl chloride	-> see: Phosgene						
Chloronaphthalene, 1-	C ₁₀ H ₇ Cl	000090-13-1		Xn	0/0	0/0	
Chloropentafluoroethane	C ₂ ClF ₅	000076-15-3		?	0/0	0/0	
Chloroprene	C ₄ H ₅ Cl	000126-99-8		F, Xn	X	0/0	0/0
Chloropropylene, 3-	-> see: Allyl chloride						
Chlorosulfonic acid	ClHSO ₃	007790-94-5	techn. pure	C+	4/4	4/4	
Chlorotoluene	C ₇ H ₇ Cl	—		Xn	0/0	0/0	isomer not indicated in the source
Chlorotrifluoromethane	CClF ₃	000075-72-9		?	0/0	0/0	
Chromic acid	CrO ₃	001333-82-0	10 %	O, T, C, N	1/1	1/1	Chromium trioxide;
Chromic acid	CrO ₃	001333-82-0	20 %	O, T, C, N	0/0	1/3	
Chromic acid	CrO ₃	001333-82-0	50 %	O, T, C, N	3/4	3/4	
Chromic potassium sulfate	KCr(SO ₄) ₂ x 12H ₂ O	007788-99-0	saturated	Xn	1/1	0/0	
Chromic-sulfuric acid	CrO ₃ + H ₂ SO ₄	065272-71-1	concentrated	O, T, C, N	4/4	4/4	
Chromium salts	—	—	each	T/Xn	0/0	0/0	
Chromium trioxide	-> see: Chromic acid						
Cinnamaldehyde	C ₉ H ₈ O	000104-55-2		Xn, Xi	0/0	0/0	
Cinnamon	—	—	ground	?	0/0	0/0	
Cinnamon oil	—	008007-80-5		Xn, Xi	3/4	4/4	
Citric acid	C ₆ H ₈ O ₇	000077-92-9	10 %	Xi	1/1	1/1	
Citric acid	C ₆ H ₈ O ₇	000077-92-9	50 %	Xi	1/1	1/1	
Citric acid	C ₆ H ₈ O ₇	000077-92-9	saturated	Xi	1/1	1/1	
Citrus juices	—	—	aqueous	—	1/1	1/1	
Cleaning agents	—	—		?	1/1	1/1	
Clophen A60	—	011096-82-5		Xn, N	0/0	0/0	polychlorinated Biphenyls, PCB; Bayer
Coal gas, without benzene	—	—		F+, T	X	1/0	1/0
Cobalt dichloride	CoCl ₂	007646-79-9	aqueous	Xn	1/1	1/1	
Cocoa	—	—		(—)	1/1	1/1	
Cocoa butter	—	008002-31-1		—	0/0	0/0	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Coconut butter	—	—	—	—	0/0	0/0	
Coconut fatty alcohol	—	068425-37-6	techn. pure	(Xi)	1/0	0/0	
Coconut oil	—	008001-31-8	techn. pure	—	1/3	1/3	
Cod-liver oil	—	008001-69-2	—	—	1/3	1/3	
Colza oil	—	008002-13-9	—	—	0/0	0/0	
Compressed air	—	—	oleagineus	—	1/0	0/0	
Condy's crystals	-> see: Potassium permanganate						
Copper acetate	C ₄ H ₆ CuO ₄	004180-12-5	aqueous	Xn	1/1	1/1	verdigris
Copper sulfate	CuSO ₄ x 5H ₂ O	007758-99-8	aqueous	Xn	1/1	1/1	blue stone
Cotton oil	—	008001-29-4	techn. pure	?	0/0	0/0	
Creosote	—	—	—	(T)	1/1	1/1	
Creosote	-> see: Carbolineum						
Cresol (-mixtures)	C ₇ H ₈ O	001319-77-3	—	T, C	3/4	4/4	
Crotonaldehyde	C ₄ H ₆ O	004170-30-3	techn. pure	F, T	X	1/0	0/0
Crude oil	—	—	100 %	(N)	0/0	1/3	
Cumene	C ₉ H ₁₂	000098-82-8	—	Xi	X	2/3	3/4
Cupric chloride	CuCl ₂	007447-39-4	saturated	Xn	1/3	1/1	
Cupric nitrate	Cu(NO ₃) ₂	003251-23-8	saturated	O, Xn	1/1	1/1	
Cupric nitrate	Cu(NO ₃) ₂	003251-23-8	aqueous	O, Xn	0/0	0/0	
Cuprous chloride	CuCl	007758-89-6	aqueous	Xn	0/0	0/0	
Cuprous cyanide	CCuN	000544-92-3	saturated	T	1/1	1/1	
Curry	—	—	—	?	0/0	0/0	possibility of discoloration
Cyanoethylene	-> see: Acrylonitrile						
Cyanomethane	-> see: Acetonitrile						
Cyclanon	—	—	—	(Xn, Xi)	1/1	1/1	appliances for dyeing-mill; BASF
Cyclohexane	C ₆ H ₁₂	000110-82-7	—	F	X	3/4	3/4
Cyclohexanol	C ₆ H ₁₂ O	000108-93-0	techn. pure	Xn	1/1	1/1	
Cyclohexanone	C ₆ H ₁₀ O	000108-94-1	techn. pure	Xn	X	1/3	3/4
Cyclohexatriene	-> see: Benzene						
Cymene, p-	C ₁₀ H ₁₄	000099-87-6	—	F, Xn/Xi	X	0/0	0/0
DDT (emulsion)	C ₁₄ H ₉ Cl ₅	000050-29-3	—	T	0/0	0/0	
Decahydronaphthalene	C ₁₀ H ₁₈	000091-17-8	—	Xn	1/3	3/4	
Decane	C ₁₀ H ₂₂	000124-18-5	—	Xn	X	0/0	0/0
Dehydroacetic acid	C ₈ H ₈ O ₄	000520-45-6	—	Xn	0/0	0/0	
Densodrin W	—	—	aqueous	?	0/0	0/0	appliance for moisture-proofing of leather; BASF
Desiccator fat	—	—	—	—	0/0	1/3	
Desmodur 44	C ₁₅ H ₁₀ N ₂ O ₂	000101-68-8	—	Xn	0/0	0/0	
Developer for fotos	—	—	—	?	1/3	1/1	
Developer liquids	—	—	—	?	1/1	1/1	
Dextrin	(C ₆ H ₁₀ O ₅) _n x H ₂ O	009004-53-9	aqueous	—	1/1	1/1	
Diacetone alcohol	C ₆ H ₁₂ O ₂	000123-42-2	—	Xi	X	0/0	0/0
Diamine	-> see: Hydrazine						
Diaminoethane	C ₂ H ₈ N ₂	000107-15-3	techn. pure	C, Xn	X	1/1	1/3
Diammonium sulfide	-> see: Ammonium sulfide						
Diamyl phthalate	C ₁₈ H ₂₆ O ₄	000131-18-0	100 %	(T)	0/0	1/3	
Dibenzyl sebacate	C ₂₄ H ₂₆ O ₄	??	—	?	0/0	0/0	plasticiser

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Dibromoethane, 1,2-	-> see: Ethylene dibromiden (EDB)						
Dibromotetrafluoroethane	C ₂ Br ₂ F ₄	000124-73-2		?	0/0	0/0	
Dibutyl phthalate, n-	C ₁₆ H ₂₂ O ₄	000084-74-2	FR, 80°C	T	0	0	plasticiser
Dibutyl phthalate, n-	C ₁₆ H ₂₂ O ₄	000084-74-2		T	1/3	3/3	plasticiser
Dibutyl sebacate	C ₁₈ H ₃₄ O ₄	000109-43-3	techn. pure	—	1/0	1/3	plasticiser
Dibutylamine	C ₈ H ₁₉ N	000111-92-2		Xn	X	0/0	0/0
Dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂	000079-43-6	50 %	C	1/1	1/1	
Dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂	000079-43-6	techn. pure	C	1/3	3/3	
Dichlorobenzene, 1,2-	C ₆ H ₄ Cl ₂	000095-50-1		Xn	3/3	3/4	
Dichlorobenzene, 1,4-	C ₆ H ₄ Cl ₂	000106-46-7		Xn	2/3	3/4	
Dichlorodifluoromethane	CCl ₂ F ₂	000075-71-8	techn. pure	N	4/4	3/4	
Dichlorodifluoromethane	CCl ₂ F ₂	000075-71-8		N	4/4	3/4	
Dichloroethane	C ₂ H ₄ Cl ₂	—		F, T	X	3/3	2/4 isomer not indicated in the source
Dichloroethylene	C ₂ H ₂ Cl ₂	—	techn. pure	F+, Xn	X	4/4	4/4 isomer not indicated in the source
Dichlorofluoromethane	CHCl ₂ F	000075-43-4	100 %	N	0/0	3/0	
Dichlorohexafluorocyclobutane	C ₄ Cl ₂ F ₆	000356-18-3		?	0/0	0/0	
Dichloroisopropyl ether	C ₆ H ₁₂ Cl ₂ O	—		(Xn)	(4)	(4)	isomer not indicated in the source
Dichloropropane	C ₃ H ₆ Cl ₂	—	100 %	F, T/Xn	X	0/0	0/0 isomer not indicated in the source
Dichlorotetrafluoroethane	C ₂ Cl ₂ F ₄	000076-14-2		?	0/0	0/0	
Dicyclohexyl phthalate	C ₂₀ H ₂₆ O ₄	000084-61-7	techn. pure	(Xn)	0/0	0/0	plasticiser
Dicyclohexylamine (DCHA)	C ₁₂ H ₂₃ N	000101-83-7		C, Xn	0/0	0/0	
Diesel fuel	—	—		Xn, N	1/3	0/0	
Diesel fuel for heating	—	—		Xn	3/3	3/4	
Diesel oil	—	068334-30-5	100 %	(Xn)	1/3	1/4	
Diethanolamine (DEA)	C ₄ H ₁₁ NO ₂	000111-42-2	100 %	Xi	0/0	1/0	
Diethyl ethyl	C ₄ H ₁₀ O	000060-29-7	techn. pure	F+, Xn	X	3/4	4/4
Diethyl ketone	-> see: Pentanone, 3-						
Diethyl malonate	C ₇ H ₁₂ O ₄	000105-53-3		Xi	1/1	1/1	
Diethyl sebacate	C ₁₄ H ₂₆ O ₄	000110-40-7		Xi	0/0	0/0	plasticiser
Diethyl succinate	C ₈ H ₁₄ O ₄	000123-25-1		—	0/0	0/0	
Diethylamine	C ₄ H ₁₁ N	000109-89-7	techn. pure	F, C, Xn	X	0/0	0/0
Diethylbenzene	C ₁₀ H ₁₄	000135-01-3		Xi	3/4	4/4	
Diethylene glycol	C ₄ H ₁₀ O ₃	000111-46-6		T	1/1	1/1	
Diethylene glycoether	—	—		(Xn)	1/1	1/1	
Difluoroethane	C ₂ H ₂ F ₂	000075-37-6		(E), F+	0/0	0/0	
Difluoromethane	CH ₂ F ₂	000075-10-5		?	0/0	0/0	
Diglycolic acid	C ₄ H ₆ O ₅	000110-99-6	aqueous	Xn	1/1	1/1	
Diglycolic acid	C ₄ H ₆ O ₅	000110-99-6	30 %	Xn, Xi	1/1	1/1	
Diisobutyl ketone	C ₉ H ₁₈ O	000108-83-8	techn. pure	Xi	X	1/4	1/3
Diisobutylene (DIB)	C ₆ H ₁₀	025167-70-8		F	X	0/0	0/0
Diisopropyl ether	C ₆ H ₁₄ O	000108-20-3	techn. pure	F	X	3/4	3/4
Di-isopropyl ketone	C ₇ H ₁₄ O	000565-80-0		F	X	0/0	0/0
Dimethyl ether	C ₂ H ₆ O	000115-10-6	gas	F+	X	0/0	3/0
Dimethyl formamide (DMF)	C ₃ D ₇ NO	000068-12-2		T	1/1	1/3	
Dimethyl ketone	-> see: Acetone						
Dimethyl phthalate (DMP)	C ₁₀ H ₁₀ O ₄	000131-11-3	100 %	(Xn)	4/4	1/3	plasticiser

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Dimethyl sulfoxide (DMSO)	C ₂ H ₆ SO	000067-68-5		Xi	1/1	1/1	
Dimethylacetone	-> see: Pentanone, 3-						
Dimethylamine	C ₂ H ₇ N	000124-40-3	techn. pure	F+, Xn	X	1/3	1/3
Dimethylaniline	C ₈ H ₁₁ N	—		T		0/0	isomer not indicated in the source
Dinitro ethylene glycol	C ₂ H ₄ (NO ₂) ₂	000628-96-6	diluted	(E, T+)		0/0	0/0
Dinonyl phthalate (DNP)	C ₂₆ H ₄₂ O ₄	000084-76-4	techn. pure	Xn		3/0	0/0 plasticiser
Diocetyl adipate	C ₂₂ H ₄₂ O ₄	000103-23-1		?		0/0	0/0 plasticiser
Diocetyl phthalate (DOP)	C ₂₄ H ₃₈ O ₄	000117-81-7	techn. pure	Xn		4/4	4/4 plasticiser
Diocetyl sebacate	C ₂₆ H ₅₀ O ₄	002432-87-3		—		0/0	0/0 plasticiser
Dioxane	C ₄ H ₈ O ₂	000123-91-1		F, Xn	X	2/2	2/3
Diphenyl ether	C ₁₂ H ₁₀ O	000101-84-8		Xn/Xi		0/0	1/0
Diphenylamine	C ₁₂ H ₁₁ N	000122-39-4		T		0/0	0/0
Diphyl	—	008004-13-5		?		0/0	0/0 mixture with diphenyl and diphenyl ether; Bayer
Dipropyl ketone	C ₇ H ₁₄ O	000123-19-3		—	X	0/0	0/0
Dipropylene glycol	C ₆ H ₁₄ O ₃	025265-71-8		Xi		1/1	1/1
Dipropylene glycol (mono)methyl ether	C ₄ H ₁₀ O ₂	—		—	X	0/0	0/0 isomer not indicated in the source
Disodium phosphate	Na ₂ HPO ₄	007558-79-4		(Xi)		1/1	1/1
Dispersion of rubber	—	—		?		0/0	0/0 latex
Dithionous acid, disodium salt	-> see: Sodium hydrosulfite						
Divinylene oxide	-> see: Furan						
Dope, viscous ~	—	—		(Xn, Xi)		1/1	1/1
Emulsifiers	—	—		?		0/0	0/0
Emulsions for fotos	—	—		?		1/0	0/0
Ephetin	—	—	10% in water	?		0/0	0/0
Epichlorhydrin	C ₃ H ₅ ClO	000106-89-8	100 %	F, T	X	1/0	1/0
Epoxypropane, 1,2-	-> see: Propylene oxid						
Ethanal	-> see: Acetaldehyde						
Ethanedioic acid	-> see: Oxalic acid						
Ethanenitrile	-> see: Acetonitrile						
Ethanoyl chloride	-> see: Acetyl chloride						
Ethoxybenzene	C ₈ H ₁₀ O	000103-73-1		?		0/0	0/0 Ethyl phenyl ether; Phenyl ethyl ether; Phenetole
Ethyl acetate	C ₄ H ₈ O ₂	000141-78-6	100 %	F	X	1/3	3/4
Ethyl acrylate	C ₈ H ₈ O ₂	000140-88-5	100 %	F, Xn	X	4/4	4/4
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	40 %	—	X	1/1	1/2
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	50 %	—	X	1/1	1/1
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	96 %	F	X	1/0	1/3
Ethyl aldehyde	-> see: Acetaldehyde						
Ethyl benzoate	C ₉ H ₁₀ O ₂	000093-89-0		Xn		2/2	3/3
Ethyl butyrate	C ₈ H ₁₂ O ₂	000105-54-4		F	X	2/3	2/4
Ethyl chloride	-> see: Monochloroethane						
Ethyl chloroacetate	C ₄ H ₇ ClO ₂	000105-39-5	techn. pure	T/Xi		1/1	1/1
Ethyl cyanoacetate	C ₅ H ₇ NO ₂	000105-56-6		Xn/Xi		1/1	1/1
Ethyl formate	C ₃ H ₆ O ₂	000109-94-4		F	X	0/0	0/0
Ethyl lactate	C ₅ H ₁₀ O ₃	000097-64-3		—	X	1/1	1/1
Ethyl mercaptan	C ₂ H ₆ S	000075-08-1		F, Xn	X	0/0	0/0
Ethyl phenyl ether	-> see: Ethoxybenzene						

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Ethyl silicate	$C_8H_{20}SiO_4$	000078-10-4		Xn	X	0/0	0/0
Ethylbenzene	C_8H_{10}	000100-41-4		F, Xn	X	2/3	3/4
Ethylene	C_2H_4	000074-85-1		F+	X	0/0	0/0
Ethylene dibromiden (EDB)	$C_2H_4Br_2$	000106-93-4		T	(4)	(4)	Dibromoethane, 1,2-;
Ethylene glycol	$C_2H_6O_2$	000107-21-1		Xn	1/1	1/1	
Ethylene glycol monobutyl ether	$C_4H_{14}O_2$	000111-76-2	100 %	Xn	X	0/0	1/0
Ethylene glycol monoethyl ether	$C_4H_{10}O_2$	000110-80-5	100 %	T	X	0/0	4/4
Ethylene glycol monoethyl ether acetate	$C_6H_{12}O_3$	000115-15-9		Xn	X	1/1	1/2
Ethylene glycol monomethyl ether	$C_3H_8O_2$	000109-86-4	100 %	T	X	1/0	1/1
Ethylene glycol monomethyl ether oleate	$C_{21}H_{40}O_3$	000111-10-4		?	1/1	1/2	Kapsolat; Methoxyethyl oleate; Methyl cellosolve oleate; plasticiser
Ethylene oxide	C_2H_4O	000075-21-8		F+, T	X	2/3	3/3
Ethylenediaminetetraacetic acid (EDTA)	$C_{10}H_{16}N_2O_8$	000060-00-4		Xi	1/1	1/1	
Ethylhexanol-1	$C_8H_{18}O$	000104-76-7		Xn/Xi		0/0	1/3
Ethyne	-> see: Acetylene						
Eucalyptus oil	—	008000-48-8		?		0/0	0/0
Exhaust gases, alkaline	—	—		?		1/1	0/0
Exhaust gases, containing carbon dioxide	—	—	small	?		1/1	0/0
Exhaust gases, containing hydrochloric acid	—	—	each	?		1/1	0/0
Exhaust gases, containing hydrogen fluoride	—	—	small	?		1/1	0/0
Exhaust gases, containing nitrose	—	—	small	?		1/1	0/0
Exhaust gases, containing sulfur dioxide	—	—	small	?		1/1	0/0
Exhaust gases, containing sulfur trioxide	—	—	small	?		1/1	0/0
Exhaust gases, containing sulfuric acid	—	—	each	?		1/1	0/0
Fat, animal	—	—		—		0/0	0/0
Fat, mineral	—	—		(—)		0/0	0/0
Fat, vegetable	—	—		—		0/0	0/0
Fats, edible oil	—	—		—		0/0	1/0
Fatty alcohol sulfonates	—	—	aqueous	(Xn, Xi)	1/1	0/0	detergents
Ferric chloride	$FeCl_3$	007705-08-0	saturated	Xn	1/1	1/1	
Ferric nitrate	$Fe(NO_3)_3$	010421-48-4	aqueous	(O, Xn)	1/1	1/1	
Ferric nitrate	$Fe(NO_3)_3$	010421-48-4	saturated	O, Xn	1/1	1/1	
Ferric sulfate	$Fe_2(SO_4)_3$	010028-22-5	saturated	Xi	1/1	1/1	
Ferrous chloride	$FeCl_2$	007758-94-3	saturated	Xn	1/1	1/1	
Ferrous sulfate	$FeSO_4$	007720-78-7	saturated	(Xn)	1/1	1/1	
Ferrous sulfate	$FeSO_4$	007720-78-7	aqueous	(Xn)	1/1	1/1	
Ferrous sulfate	$FeSO_4$	007720-78-7		Xn	1/1	1/1	
Fire-damp	—	—		F+	X	0/0	0/0 mainly methane
Fixer for fotos	—	—		?		1/0	1/1
Fluid 101, 100°C	—	—		?		0	0 Brake fluid, based on polyglycoles
Fluorides	—	—		T		1/1	1/1
Fluorine	F_2	007782-41-4		O, T+, C+	4/4	4/4	
Fluorobenzene	C_6H_5F	000462-06-6		F, (Xn)	X	0/0	0/0
Fluorocarbons	—	—		?		0/0	0/4 resistance depends on type
Formaldehyde solution	CH_2O	000050-00-0	10 %	Xn	1/1	1/1	
Formaldehyde solution	CH_2O	000050-00-0	30 %	T	1/1	1/1	
Formaldehyde solution	CH_2O	000050-00-0	40 %	T	1/2	2/3	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Formamide	CH ₃ NO	000075-12-7	techn. pure	T/Xi	1/1	1/1	
Formic acid	CH ₂ O ₂	000064-18-6	50 %	C	1/1	1/2	Hydrogen carboxylic acid; Methanoic acid; Aminic acid; Formylic acid
Formic acid	CH ₂ O ₂	000064-18-6	98-100 %	C	1/1	1/2	
Formic acid	CH ₂ O ₂	000064-18-6	3 %	Xi	1/1	1/2	
Freon 11	-> see: Trichlorofluoromethane						
Freon 11	-> see: Trichlorofluoromethane						
Freon 112	-> see: Tetrachlorodifluoroethane						
Freon 112	-> see: Tetrachlorodifluoroethane						
Freon 113	-> see: Trichlorotrifluoroethane						
Freon 113	-> see: Trichlorotrifluoroethane						
Freon 114	-> see: Dichlorotetrafluoroethane						
Freon 114	-> see: Dichlorotetrafluoroethane						
Freon 114 B2	-> see: Dibromotetrafluoroethane						
Freon 114 B2	-> see: Dibromotetrafluoroethane						
Freon 115	-> see: Chloropentafluoroethane						
Freon 115	-> see: Chloropentafluoroethane						
Freon 12	-> see: Dichlorodifluoromethane						
Freon 12	-> see: Dichlorodifluoromethane						
Freon 13	-> see: Chlorotrifluoromethane						
Freon 13	-> see: Chlorotrifluoromethane						
Freon 13 B1	-> see: Bromotrifluoromethane						
Freon 13 B1	-> see: Bromotrifluoromethane						
Freon 14	-> see: Carbon tetrafluoride						
Freon 14	-> see: Carbon tetrafluoride						
Freon 142b	-> see: Chlorodifluoroethane						
Freon 142b	-> see: Chlorodifluoroethane						
Freon 152a	-> see: Difluoroethane						
Freon 152a	-> see: Difluoroethane						
Freon 21	-> see: Dichlorofluoromethane						
Freon 21	-> see: Dichlorofluoromethane						
Freon 218	-> see: Octafluoropropane						
Freon 218	-> see: Octafluoropropane						
Freon 22	-> see: Chlorodifluoromethane						
Freon 22	-> see: Chlorodifluoromethane						
Freon 31	-> see: Chlorofluoromethane						
Freon 31	-> see: Chlorofluoromethane						
Freon 32	-> see: Difluoromethane						
Freon 32	-> see: Difluoromethane						
Freon C 318	-> see: Perfluorocyclobutane						
Freon C 318	-> see: Perfluorocyclobutane						
Freon C316	-> see: Dichlorohexafluorocyclobutane						
Freon C316	-> see: Dichlorohexafluorocyclobutane						
Frigen 12	-> see: Dichlorodifluoromethane						
Frigen 12	-> see: Dichlorodifluoromethane						
Frigen 21	-> see: Dichlorofluoromethane						
Frigen 21	-> see: Dichlorofluoromethane						

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Frigen 22	-> see: Chlorodifluoromethane						
Frigen 22	-> see: Chlorodifluoromethane						
Fructose	C ₆ H ₁₂ O ₆	000057-48-7	each	—	1/1	1/1	
Fruit pulp	—	—	—	—	1/1	1/1	
Fruit wine	—	—	—	—	1/1	1/1	
Fuel + 20% ethyl alcohol	—	—	—	F, T	X	0/0	0/0
Fuel + 20% methyl alcohol	—	—	—	F, T	X	0/0	0/0
Fuel, Normal	—	—	—	F, T	X	0/0	0/0
Fuel, piston engine (JP)	—	—	—	(Xn)		0/0	0/0
Fuel, Super	—	—	—	F, T	X	0/0	0/0
Furalmethanal, 2-	-> see: Furfural						
Furan	C ₄ H ₄ O	000110-00-9		F+, T+	X	0/0	0/0 Furfuran; Divinylene oxide; Oxacyclopentadiene
Furancarboxyaldehyde, 2-	-> see: Furfural						
Furfural	C ₅ H ₄ O ₂	000098-01-1		T	1/3	3/4	Furancarboxyaldehyde, 2-; Furaldehyde, 2-; Furalmethanal, 2-
Furfuryl alcohol	C ₅ H ₆ O ₂	000098-00-0	techn. pure	Xn	1/1	1/3	
Gallic acid	C ₇ H ₆ O ₅ x H ₂ O	000149-91-7		Xi	1/1	1/1	
Gas liquor	—	—	—	?	0/0	0/0	
Gas oil	—	—	—	(Xn)		0/0	0/0
Gas, natural	—	—	—	F+	X	0/0	0/0 mainly methane
Gasoline	—	008006-61-9	—	(F, Xn)	X	0/0	0/0
Gasoline	C ₅ H ₁₂ - C ₁₂ H ₂₆	086290-81-5	—	F, Xn, N	X	2/3	3/4 fuel, lead-free
Gearbox oil, EP (Hypoid), 110°C	—	—	—	?		0	0
Gelatin	—	009000-70-8	each	—	1/1	1/1	
Genantın	—	—	—	Xn	0/0	0/0	antifreeze agent , based on glycol; Clariant
Ginger	—	—	ground	?	0/0	0/0	
Glucose	C ₆ H ₁₂ O ₆	000050-99-7	each	—	1/1	1/1	
Glue (bone glue)	—	—	each	—	1/0	1/1	
Glycerol	C ₃ H ₈ O ₃	000056-81-5	each	Xi	1/1	1/1	Glycerin; Propanetriol, 1,2,3-; Trihydroxypropane, 1,2,3-
Glycine	C ₂ H ₅ NO ₂	000056-40-6	10 %	—	1/1	1/1	Glycocol; Aminoacetic acid
Glycolic acid	C ₂ H ₄ O ₃	000079-14-1	37 %	Xn	1/1	0/0	
Glycolic acid	C ₂ H ₄ O ₃	000079-14-1	70 %	C, Xn	1/1	1/1	
Glystantin	—	—	—	Xn	1/1	1/1	antifreeze agent , based on glycol; BASF
Gum tragacanth	—	009000-65-1	—	—	1/1	1/1	
HD-Oil motor oil, without aromatics	—	—	—	?	1/0	1/3	
Helium	He	007440-59-7	—	—	0/0	0/0	
Henkel-P3-solution	—	—	—	?	1/1	1/1	cleaner
Heptane, normal	C ₇ H ₁₆	000142-82-5	—	F, Xn	X	2/3	3/4
Heptanol, 1-	C ₇ H ₁₆ O	000111-70-6	—	Xn		0/0	0/0
Heptanone	C ₇ H ₁₄ O	—	—	(Xn)	X	0/0	0/0 isomer not indicated in the source
Hexachlorbenzene (HCB)	C ₆ Cl ₆	000118-74-1	—	T		0/0	0/0
Hexachlorocyclohexane (alpha-BHC)	C ₆ H ₆ Cl ₆	000319-84-6	—	T		0/0	0/0
Hexahydropyridine	-> see: Piperidine						
Hexaldehyde, n-	C ₆ H ₁₂ O	000066-25-1	—	F, Xi	X	0/0	0/0
Hexamethylenetetramine	C ₆ H ₁₂ N ₄	000100-97-0	—	F, Xn	X	0/0	0/0 Methenamine; Hexamine; Urotropin
Hexane, n-	C ₆ H ₁₄	000110-54-3	—	F, Xn	X	2/3	4/4
Hexanedioic acid	-> see: Adipic acid						

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Hexanetriol	C ₆ H ₁₄ O ₃	—	100 %	?	1/1	1/1	isomer not indicated in the source
Hexene, 1-	C ₆ H ₁₂	000592-41-6		F, Xn	X	0/0	0/0 Butyl ethylene; Hexylene
Hexyl alcohol	C ₆ H ₁₄ O	000111-27-3		Xn		1/0	1/0
Honey	—	—	—	—		1/1	1/1
Hydraulic fluids, HFA	—	—	50°C	?		0	0
Hydraulic fluids, HFB	—	—	50°C	?		0	0
Hydraulic fluids, HFC	—	—	60°C	?		0	0
Hydraulic fluids, HFD-R	—	—	100°C	?		0	0
Hydraulic fluids, HFD-S	—	—	100°C	?		0	0
Hydraulic oil (based on mineral oil)	—	—	—	?		0/0	0/0
Hydrazine	N ₂ H ₄	000302-01-2	10 %	T	X	1/1	1/0 Diamide; Diamine; Nitrogen hydride
Hydrazine hydrate	N ₂ H ₆ O	010217-52-4	aqueous	(T, C)	(X)	1/1	1/0
Hydrocyanic acid, sodium salt	-> see: Sodium cyanide						
Hydrogen	H ₂	001333-74-0	techn. pure	F+	X	1/1	1/1
Hydrogen bromide	HBr	010035-10-6	40 %	C		1/0	1/1
Hydrogen bromide	HBr	010035-10-6	50 %	C		1/1	1/2
Hydrogen bromide	HBr	010035-10-6	diluted	C		1/1	1/1
Hydrogen carboxylic acid	-> see: Formic acid						
Hydrogen chloride	HCl	007647-01-0	1-5 %	—		1/1	1/1
Hydrogen chloride	HCl	007647-01-0	35 %	C		1/1	1/1
Hydrogen chloride	HCl	007647-01-0	concentrated	C		1/1	1/1
Hydrogen chloride	HCl	007647-01-0	20 %	Xi		1/1	1/1 salt acid
Hydrogen chloride (gas)	HCl	007647-01-0	anhydrous	T, C		1/1	0/0
Hydrogen cyanide	HCN	000074-90-8	techn. pure	F+, T+	X	1/1	1/1
Hydrogen cyanide	HCN	000074-90-8	aqueous	F+, T+	X	1/1	1/1
Hydrogen fluoride	HF	007664-39-3	anhydrous	T+, C+		0/0	0/0
Hydrogen fluoride	HF	007664-39-3	4 %	T, C		1/1	1/2
Hydrogen fluoride	HF	007664-39-3	50 %	T+, C		1/1	1/1
Hydrogen fluoride	HF	007664-39-3	70 %	T+, C		0/0	1/3
Hydrogen fluoride	HF	007664-39-3	100 %	T+, C+		0/0	0/0
Hydrogen peroxide	H ₂ O ₂	007722-84-1	30 %	C		1/1	1/2
Hydrogen peroxide	H ₂ O ₂	007722-84-1	100 %	O, C		1/4	1/4
Hydrogen peroxide	H ₂ O ₂	007722-84-1	90 %	O, C		1/1	1/2
Hydrogen peroxide	H ₂ O ₂	007722-84-1	3 %	Xi		1/1	1/1
Hydrogen sulfide	H ₂ S	007783-06-4	saturated	F+, T+	X	1/1	1/1
Hydroquinone	C ₆ H ₆ O ₂	000123-31-9	saturated	Xn		0/0	1/3 Hydroquinol; Quinol
Hydroxyaluminium di(acetate)	C ₄ H ₇ AlO ₅	000139-12-8	aqueous	Xn		1/1	1/1
Hydroxylamine disulfate	H ₈ N ₂ SO ₆	010039-54-0	12 %	Xn		1/1	1/1
Hydroxylamine disulfate	H ₈ N ₂ SO ₆	010039-54-0	each	Xn		1/1	0/0
Hydroxymethyl furfural, 5- (HMF)	C ₆ H ₆ O ₃	000067-47-0		Xi		0/0	0/0
Imidole	-> see: Pyrrole						
Iodine pentafluoride	JF ₅	007783-66-6		(T, C)		0/0	0/0
Iodine, tincture of	I ₂	007553-56-2		Xn	(X)	1/3	1/3
Iodoform	CHI ₃	000075-47-8	100 %	Xn		3/0	3/0 Triiodomethane;
Isoamyl alcohol	C ₅ H ₁₂ O	000123-51-3		Xn	X	0/0	0/0
Isobutanol	C ₄ H ₁₀ O	000078-83-1		Xn	X	1/1	1/1 Methyl-1-propanol, 2-; Isopropyl carbinol; Isobutyl alcohol

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Isobutyl acetate	C ₆ H ₁₂ O ₂	000110-19-0		F	X	0/0	0/0 Methylpropyl acetate, 2-; Methylpropyl ethanoate, Beta-
Isobutyl alcohol	-> see: Isobutanol						
Isobutyltrimethylmethane	-> see: Trimethylpentane, 2,2,4-						
ISO-Fluid	—	—	liquid	Xn, N	X	0/0	2/3
ISO-Fluid A	—	—		(Xn, N)	(X)	0/0	0/0
ISO-Fluid B	—	—		(Xn, N)	(X)	0/0	0/0
ISO-Fluid C	—	—		(Xn, N)	(X)	0/0	0/0
ISO-Fluid D	—	—		(Xn, N)	(X)	0/0	0/0
Iso-octane	-> see: Trimethylpentane, 2,2,4-						
Isopropyl acetate	C ₅ H ₁₀ O ₂	000108-21-4		F, Xi	X	1/2	2/3
Isopropyl alcohol	C ₃ H ₈ O	000067-63-0	techn. pure	F	X	1/1	1/1
Isopropyl carbinol	-> see: Isobutanol						
Isopropyl chloride	C ₃ H ₇ Cl	000075-29-6		F, Xn	X	0/0	0/0
Jam	—	—		—	—	1/1	1/1
Juices	—	—		—	—	1/1	1/1
Kapsolat	-> see: Ethylene glycol monomethyl ether oleate						
Kerosene	—	008008-20-6		(Xn)	2/2	3/4	lamp oil
Kerosene	—	—	techn. pure	Xn, N	X	1/3	3/4
Lactames	—	—		?	0/0	0/0	cyclic amides
Lactic acid	C ₃ H ₆ O ₃	000050-21-5	3 %	?	1/1	1/2	lactol
Lactic acid	C ₃ H ₆ O ₃	000050-21-5	80 %	C	1/1	1/1	lactol
Lactic acid	C ₃ H ₆ O ₃	000050-21-5	85 %	C	1/1	1/1	lactol
Lactose	C ₁₂ H ₂₂ O ₁₁	000063-42-3	aqueous	—	—	1/1	1/1
Lanolin	—	008006-54-0	techn. pure	—	—	3/3	3/3
Lard	—	—		—	—	0/0	0/0
Latex	—	—		?	0/0	0/0	dispersion of rubber
Laurel	—	—	ground	?	0/0	0/0	
Lauryl alcohol	C ₁₂ H ₂₆ O	000112-53-8	100 %	Xi	0/0	0/0	
Lauryl chloride	C ₁₂ H ₂₅ Cl	000112-52-7	100 %	(Xi)	0/0	0/0	
Lavender oil	—	008000-28-0		(Xi)	0/0	0/0	
Lead acetate	C ₄ H ₆ PbO ₄	000301-04-2	aqueous	T, N	1/1	1/1	
Lead acetate	C ₄ H ₆ PbO ₄	000301-04-2		T, N	1/1	1/1	
Lead nitrate	Pb(NO ₃) ₂	010099-74-8	aqueous	O, T, N	1/1	1/1	
Lead nitrate	Pb(NO ₃) ₂	010099-74-8		O, T, N	1/1	1/1	
Lead stearate	C ₃₆ H ₇₀ PbO ₄	001072-35-1		?	1/1	1/1	small solubility - no chemical effect expected
Lead sulfate	PbSO ₄	007446-14-2		(T, N)	1/1	1/1	small solubility - no chemical effect expected
Lead tetraethyl (TEL)	C ₈ H ₂₀ Pb	000078-00-2	techn. pure	T+	X	1/0	1/0
Lemon juice	—	—		—	—	1/1	1/1
Lemon oil	—	084929-31-7		Xi	(X)	0/0	0/0 mainly limonene
Lemongrass oil	—	008007-02-1		(Xi)	0/0	0/0	
Ligroin	—	008032-32-4		F, Xn	X	0/0	0/0 petroleum ether
Lime chloride	[3 x CaCl(OCl) + Ca	—	aqueous	?	0/0	0/0	chloride of lime, bleach
Lime chloride	[3 x CaCl(OCl) + Ca	—		O, C	0/0	0/0	chloride of lime, bleach
Limonene, DL-	C ₁₀ H ₁₆	000138-86-3		Xn	X	0/0	0/0
Linseed oil	—	008001-26-1	techn. pure	—	—	1/1	1/3
Liqueurs	—	—		—	—	1/0	0/0

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Lithium bromide	LiBr	007550-35-8		Xn	1/1	1/1	
Lube oils	—	—		?	1/3	2/3	
Lysol	—	—		T	0/0	0/0	disinfectant, cresol + soap
Machine oil	—	—	100 %	?	0/0	1/4	
Magnesium bromide	MgBr ₂	007789-48-2		Xi	1/1	1/1	
Magnesium carbonate	MgCO ₃	000546-93-0	saturated	—	1/1	1/1	
Magnesium chloride	MgCl ₂	007786-30-3	aqueous	Xi	1/1	1/1	
Magnesium chlorite	Mg(ClO ₂) ₂	??		O	0/0	0/0	
Magnesium hydroxide	Mg(OH) ₂	001309-42-8	saturated	—	1/1	1/1	
Magnesium iodide	MgI ₂	010377-58-9		(Xn)	1/1	1/1	
Magnesium nitrate	Mg(NO ₃) ₂	010377-60-3	saturated	O, Xi	1/1	1/1	Nitric acid, magnesium salt;
Magnesiumsulfat	MgSO ₄	007487-88-9	each	—	1/1	1/1	
Maize-germ oil	—	008001-30-7	techn. pure	—	1/3	0/0	corn oil
Maleic acid	C ₄ H ₄ O ₄	000110-16-7	saturated	Xn	1/1	1/1	
Maleic acid	C ₄ H ₄ O ₄	000110-16-7	aqueous	Xn	1/1	1/1	
Margarine	—	—		—	0/0	0/0	
Menthol	C ₁₀ H ₂₀ O	000089-78-1	solid	Xi	1/3	3/4	
Mercuric chloride	HgCl ₂	007487-94-7	aqueous	T+, C	1/1	1/1	
Mercuric cyanide	C ₂ HgN ₂	000592-04-1	saturated	T+	1/1	1/1	
Mercuric nitrate	Hg(NO ₃) ₂	010045-94-0	saturated	(T+)	1/1	1/1	
Mercury	Hg	007439-97-6	pure	T	1/1	1/1	
Mesityl oxide	C ₆ H ₁₀ O	000141-79-7		Xn	X	0/0	0/0
Methacetone	—	—		-> see: Pentanone, 3-			
Methacrylic acid	C ₄ H ₆ O ₂	000079-41-4		C	1/0	1/1	
Methane	CH ₄	000074-82-8	techn. pure	F+	X	1/0	0/0
Methanoic acid	—	—		-> see: Formic acid			
Methenamine	—	—		-> see: Hexamethylenetetramine			
Methoxy butanol	C ₅ H ₁₂ O ₂	—	100 %	?	X	0/0	1/3 isomer not indicated in the source
Methoxyethane	C ₃ H ₈ O	000540-67-0	100 %	(F+)	X	0/0	3/0 Methyl ethyl ether;
Methoxyethyl oleate	—	—		-> see: Ethylene glycol monomethyl ether oleate			
Methyl acetate	C ₃ H ₆ O ₂	000079-20-9	techn. pure	F	X	1/0	1/1
Methyl acrylate	C ₄ H ₆ O ₂	000096-33-3		F, Xn	X	0/0	0/0
Methyl alcohol	CH ₄ O	000067-56-1		F, T	X	1/1	1/1
Methyl amine	CH ₅ N	000074-89-5	32 %	F+, C	X	1/0	1/0
Methyl benzene	C ₇ H ₈	000108-88-3		F, Xn	X	3/4	3/4
Methyl bromide	CH ₃ Br	000074-83-9	techn. pure	T		3/0	4/4
Methyl butanol	C ₅ H ₁₂ O	—		Xn	X	0/0	0/0 isomer not indicated in the source
Methyl butyl ketone	C ₆ H ₁₂ O	000591-78-6		F, T	X	0/0	0/0
Methyl cellosolveat oleate	—	—		-> see: Ethylene glycol monomethyl ether oleate			
Methyl chloride	CH ₃ Cl	000074-87-3	techn. pure	F+, T	X	3/0	2/0
Methyl cyanide	—	—		-> see: Acetonitrile			
Methyl dichloroacetate	C ₃ H ₄ Cl ₂ O ₂	000116-54-1		(Xn)		1/1	0/0
Methyl ethyl carbinol	—	—		-> see: Butyl alcohol, sec-			
Methyl ethyl ether	—	—		-> see: Methoxyethane			
Methyl ethyl ketone (MEK)	C ₄ H ₈ O	000078-93-3		F	X	1/3	3/4
Methyl ethylene oxide	—	—		-> see: Propylene oxid			

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Methyl formate	C ₂ H ₄ O ₂	000107-31-3		F+	X	0/0	0/0
Methyl isobutyl ketone	C ₆ H ₁₂ O	000108-10-1		F	X	1/2	2/3
Methyl isopropyl ketone	C ₆ H ₁₀ O	000563-80-4		F	X	0/0	0/0
Methyl ketone	-> see: Acetone						
Methyl methacrylate	C ₅ H ₈ O ₂	000080-62-6	100 %	F, Xi	X	0/0	0/0
Methyl propyl ketone	C ₅ H ₁₀ O	000107-87-9		(F)	X	1/2	2/3
Methyl salicylate	C ₉ H ₈ O ₃	000119-36-8		Xn, Xi		0/0	0/0 synthetic oil of wintergreen
Methyl sulfuric acid	CH ₃ SO ₄	000077-78-1	50 %	(C)		0/0	1/1
Methyl sulfuric acid	CH ₃ SO ₄	000077-78-1	aqueous	(C)		0/0	0/0
Methyl-1-propanol, 2-	-> see: Isobutanol						
Methylchloroacetate	C ₃ H ₅ ClO ₂	000096-34-4	techn. pure	T/Xi	X	1/1	0/0
Methylcyclohexane	C ₇ H ₁₄	000108-87-2		F, Xn	X	3/0	3/0
Methylcyclopentane	C ₆ H ₁₂	000096-37-7		F	X	0/0	0/0
Methylene chloride	CH ₂ Cl ₂	000075-09-2		Xn		4/4	4/4
Methylglycol acetate	C ₅ H ₁₀ O ₃	000110-49-6		T		0/0	0/0
Methyloxirane	-> see: Propylene oxid						
Methylpropyl acetate, 2-	-> see: Isobutyl acetate						
Milk	—	—		—		1/1	1/1
Mineral oil	—	008012-95-1		(Xn)		1/1	2/4
Mineral water	—	—		—		1/1	1/1
Molasses	—	—		—		1/1	1/1
Molasses wort	—	—		?		1/1	1/1
Monochlorobenzene (MCB)	-> see: Chlorobenzene						
Monochloroethane	C ₂ H ₅ Cl	000075-00-3		F+, Xn	X	3/3	3/4 Ethyl chloride; Chloroethane, 1-
Morpholine	C ₄ H ₈ NO	000110-91-8	techn. pure	C, Xn	X	1/1	1/1
Motor oil	—	—		?		0/0	0/0
Mowilith D	—	—		?		1/0	0/0 dispersion of polyvinyl acetate; Clariant
Muscat	—	—	ground	?		0/0	0/0
Mustard	—	—		—		0/0	0/0
Naphtha	—	008032-32-4		(Xn)		1/3	3/4 petroleum ether
Naphthalene	C ₁₀ H ₈	000091-20-3	100 %	F, Xn	X	0/0	1/3
Naphthalene (in alcohol)	—	—		F, Xn	X	1/4	1/4
Neon	Ne	007440-01-9		—		0/0	0/0
Nickel acetate	C ₄ H ₆ NiO ₄	000373-02-4	aqueous	(T, N)		1/1	1/1
Nickel dichloride	NiCl ₂	007718-54-9	saturated	T		1/1	1/1
Nickel dichloride	NiCl ₂	007718-54-9	aqueous	T		1/1	1/1
Nickel sulfate	NiSO ₄	007786-81-4	saturated	Xn		1/1	1/1
Nickel sulfate	NiSO ₄	007786-81-4	aqueous	Xn		1/1	1/1
Nickelous nitrate	Ni(NO ₃) ₂	013138-45-9	saturated	(O, Xn)		1/1	1/1
Nicotine	C ₁₀ H ₁₄ N ₂	000054-11-5		T+		1/0	1/0
Nicotinic acid	C ₆ H ₅ NO ₂	000059-67-6	diluted	Xi		1/1	1/1
Nitric acid	HNO ₃	007697-37-2	1-10 %	C		1/1	1/1
Nitric acid	HNO ₃	007697-37-2	50 %	C+		2/4	3/4
Nitric acid	HNO ₃	007697-37-2	66 %	C+		2/4	3/4
Nitric acid	HNO ₃	007697-37-2	100 %	O, C+		4/4	4/4
Nitric acid	HNO ₃	007697-37-2	70 %	O, C+		2/4	3/4

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Nitric acid	-> see: Ammonium nitrate						
Nitric acid, magnesium salt	-> see: Magnesium nitrate						
Nitric acid, potassium salt	-> see: Potassium nitrate						
Nitro benzoic acid	C ₇ H ₅ NO ₄	—		(Xn)	1/0	1/0	isomer not indicated in the source
Nitro reducer	—	—		?	X	0/0	0/0 solvent cleaner mixture
Nitrobenzene	C ₆ H ₅ NO ₂	000098-95-3		T	3/4	4/4	
Nitroethane	C ₂ H ₅ NO ₂	000079-24-3		Xn	X	0/0	0/0
Nitrogen	N ₂	007727-37-9		—	0/0	0/0	
Nitrogen hydride	-> see: Hydrazine						
Nitrogen tetroxide	N ₂ O ₄	010544-72-6		(O), T+, C	0/0	0/0	
Nitroglycerine	C ₃ H ₅ (NO ₃) ₃	000055-63-0	diluted	(E, T+)	0/0	0/0	
Nitrohydrochloric acid	HNO ₃ + HCl	008007-56-5		C	4/4	4/4	aqua regia: mixture of hydrochloric acid and nitric acid
Nitropropane	C ₃ H ₇ NO ₂	—		(T)	0/0	0/0	isomer not indicated in the source
Nitrose gases	—	—	diluted	T	1/1	0/0	nitrogen monoxide + nitrogen dioxide
Nitrotoluene	C ₇ H ₇ NO ₂	001321-12-6	techn. pure	T	1/3	1/3	
Nitrous acid, sodium salt	-> see: Sodium nitrite						
Nitrous oxide	N ₂ O	010024-97-2		(O)	0/0	0/0	nitric oxide
Nonanol	-> see: Nonyl alcohol						
Nonyl alcohol	C ₉ H ₂₀ O	000143-08-8	100 %	Xn, Xi	0/0	1/1	Nonanol; Pelargonic alcohol; Octyl carbinol
Nutmeg oil	—	008008-45-5		(Xn)	0/0	0/0	
Octafluoropropane	C ₃ F ₈	000076-19-7		?	0/0	0/0	
Octane	C ₈ H ₁₈	000111-65-9		F, Xn	X	1/1	1/1
Octyl carbinol	-> see: Nonyl alcohol						
Octyl cresol ?	C ₁₅ H ₂₄ O	—	100 %	?	3/0	3/0	isomer not indicated in the source
Oils and fats, vegetable	—	—		—	1/3	1/3	
Oils, essential	—	—		?	4/4	3/4	
Oleic acid	C ₁₈ H ₃₄ O ₂	000112-80-1	techn. pure	Xi	1/3	1/3	
Oleic acid methyl ester	C ₁₉ H ₃₆ O ₂	000112-62-9		—	0/0	0/0	
Oleum	H ₂ SO ₄ x SO ₃	008014-95-7	10 % SO ₃	C+	4/4	4/4	fuming sulfuric acid
Oleum steams	—	—	small	?	4/4	0/0	sulfur trioxide
Olive oil	—	008001-25-0		—	1/3	0/0	
Orange juice	—	—		—	1/1	1/1	
Orange oil	—	008028-48-6		Xn	(3)	(3)	mainly +-limonene
Orange oil, bitter	—	068916-04-1		?	2/3	3/4	
Oxacyclopentadiene	-> see: Furan						
Oxalic acid	C ₂ H ₂ O ₄ x 2H ₂ O	000144-62-7	aqueous	Xn	1/1	1/1	Ethanedioic acid;
Oxalic acid	C ₂ H ₂ O ₄ x 2H ₂ O	000144-62-7		Xn	1/1	1/1	
Oxygen	O ₂	007782-44-7	techn. pure	O	1/3	1/3	
Ozone	O ₃	010028-15-6		(O, T)	3/4	3/4	
Ozone-air-mixture	—	—		(O, T)	0/0	0/0	
Palm kernel oil	—	008023-79-8		—	0/0	0/0	
Palm oil	—	008002-75-3		—	1/3	0/0	
Palmitic acid	C ₁₆ H ₃₂ O ₂	000057-10-3	techn. pure	Xi	3/3	2/2	
Paraffin wax	—	008002-74-2	melted	(—)	0	0	
Paraffin-emulsion	—	—		?	1/3	0/0	
Paraffins	C _n H _{2n+2}	—	100 %	?	1/0	1/1	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Paraformaldehyde	$(\text{CH}_2\text{O})_n\text{H}_2\text{O}$	030525-89-4		F, T	X	0/0	0/0 Polyoxymethylene;
Peanut oil	—	008002-03-7		—		0/0	0/0
Pectin	—	009000-69-5	aqueous	—		1/1	1/1
Pectin	—	009000-69-5		—		1/1	1/1
Pelargonic alcohol	-> see: Nonyl alcohol						
Penicillin	—	—		Xn		(1)	(1) antibiotic
Pentachlorobiphenyl	$\text{C}_{12}\text{H}_5\text{Cl}_5$	—		Xn		0/0	0/0
Pentamethyleneimine	-> see: Piperidine						
Pentane, normal	C_5H_{12}	000109-66-0		F	X	1/3	1/3
Pentanethiol, 1-	$\text{C}_5\text{H}_{12}\text{S}$	000110-66-7		Xn	X	0/0	0/0
Pentanol, 1-	$\text{C}_5\text{H}_{12}\text{O}$	000071-41-0		Xn	X	1/1	1/2 Amyl alcohol, n-; Butyl carbinol, n-; Pentyl alcohol, n-
Pentanone, 3-	$\text{C}_5\text{H}_{10}\text{O}$	000096-22-0		F		2/2	2/3 Diethyl ketone; Dimethylacetone; Methacetone
Pentyl alcohol, n-	-> see: Pentanol, 1-						
Pepper	—	—	ground	?		0/0	0/0
Perchloric acid	HClO_4	007601-90-3	70 %	E, O, C+		2/4	3/4
Perchloric acid	HClO_4	007601-90-3	20 %	Xi		0/0	1/3
Perchlorobutadiene	C_4Cl_6	000087-68-3		T		0/0	0/0
Perchloroethylene	-> see: Tetrachloroethylene						
Perfluorocyclobutane	C_4F_8	000115-25-3		?		0/0	0/0
Perfumes	—	—		?		3/0	3/0
Permanganic acid, potassium salt	-> see: Potassium permanganate						
Petroleum	—	008002-05-9		(Xn)		0/0	0/0
Petroleum ether	—	008032-32-4	techn. pure	(F, Xn)	X	1/3	1/3
Phenacetin	$\text{C}_{10}\text{H}_{13}\text{NO}_2$	000062-44-2		Xn		0/0	0/0
Phenethyl alcohol	$\text{C}_8\text{H}_{10}\text{O}$	000060-12-8		Xn		0/0	0/0
Phenetole	-> see: Ethoxybenzene						
Phenol	$\text{C}_6\text{H}_6\text{O}$	000108-95-2	10 %	T		1/1	1/1
Phenol	$\text{C}_6\text{H}_6\text{O}$	000108-95-2	100 %	T, C		2/3	3/3
Phenolic resin mass	—	—		?		1/1	1/1
Phenyl chloride	-> see: Chlorobenzene						
Phenyl methyl ketone	-> see: Acetophenone						
Phenylethanone, 1-	-> see: Acetophenone						
Phenylhydrazine	$\text{C}_6\text{H}_8\text{N}_2$	000100-63-0	techn. pure	T		3/0	0/0
Phenylhydrazine hydrochloride	$\text{C}_6\text{H}_8\text{N}_2\text{-HCl}$	000059-88-1		T		0/0	0/0
Phenylsulfonate	—	070528-83-5		?		0/0	1/1
Phosgene	COCl_2	000075-44-5	liquid	T+, C		0/0	0/0 Carbonyl chloride; Chloroformyl chloride
Phosgene	COCl_2	000075-44-5	gaseous	T+, C		0/0	3/0
Phosphates	—	—	aqueous	?		1/1	1/1 salts of phosphoric acid
Phosphine	PH_3	007803-51-2	concentrated	F+, T+	X	0/0	0/0
Phosphoric acid	H_3PO_4	007664-38-2	30 %	C		1/1	1/1
Phosphoric acid	H_3PO_4	007664-38-2	85 %	C		1/1	1/1
Phosphoric acid	H_3PO_4	007664-38-2	1-5 %	Xi		1/1	1/1
Phosphoric acid	H_3PO_4	007664-38-2	20%	Xi		1/1	1/1
Phosphorus oxychloride	POCl_3	010025-87-3	100 %	T, C		0/0	1/0
Phosphorus oxychloride	POCl_3	010025-87-3		T, C		0/0	1/0
Phosphorus pentachloride	PCl_5	010026-13-8		T+, C		0/0	1/0

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Phosphorus pentoxide	P ₄ O ₁₀	001314-56-3	techn. pure	C	1/0	0/0	
Phosphorus trichloride	PCl ₃	007719-12-2		T, C	3/3	3/3	
Phthalic acid	C ₈ H ₆ O ₄	000088-99-3	saturated	Xi	1/1	1/1	
Phthalsäuremonoamylester ?	C ₁₃ H ₁₆ O ₄	??		(Xn)	0/0	0/0	
Picric acid	C ₆ H ₃ N ₃ O ₇	000088-89-1	1 % aqueous	T	1/0	1/0	
Pine oil	—	008023-99-2		?	0/0	0/0	pinus sylvestris
Pineapple juice	—	—		—	1/1	1/1	
Pink	—	—	ground	?	0/0	0/0	
Piperidine	C ₆ H ₁₁ N	000110-89-4		F, T, C	0/0	0/0	Hexahydropyridine; Azacyclohexane; Pentamethyleneimine
Plasticiser	—	—		?	1/3	1/3	
Polish remover	—	—		?	(X) 0/0	0/0	
Polyester resins	—	—		(Xn)	(X) 3/4	3/4	
Polyethylene glycol	HO-(C ₂ H ₄ O) _n -H	025322-68-3	100 %	(—)	1/1	1/1	
Polyoxymethylene	-> see: Paraformaldehyde						
Polyran M25 N	—	—	80°C	?	0	0	lubricating oil
Polyran M400	—	—	80°C	?	0	0	lubricating oil
Polysolvan O	C ₆ H ₁₂ O ₃	007397-62-8	100 %	Xi	0/0	1/1	solvent cleaner, butyl glycolate; Celanese AG
Potassium acetate	C ₂ H ₃ KO ₂	000127-08-2	aqueous	Xi	1/1	1/1	
Potassium bisulfate	KHSO ₄	007646-93-7	aqueous	(C)	1/1	1/1	
Potassium bisulfate	KHSO ₄	007646-93-7		C	1/1	1/1	
Potassium bitartrate	C ₄ H ₅ KO ₆	000868-14-4	saturated	Xi	1/1	1/1	
Potassium borate	KBO ₂	012228-88-5	10 %	(Xn)	1/1	1/1	
Potassium borate	KBO ₂	012228-88-5	aqueous	(Xn)	1/1	1/1	
Potassium bromate	KBrO ₃	007758-01-2	saturated	O, T	1/3	1/3	
Potassium bromate	KBrO ₃	007758-01-2	aqueous	O, T	0/0	0/0	
Potassium bromide	KBr	007758-02-3	each	Xn	1/1	1/1	
Potassium carbonate	K ₂ CO ₃	000584-08-7	saturated	Xn	1/1	1/1	
Potassium carbonate	K ₂ CO ₃	000584-08-7	aqueous	Xn	1/1	1/1	
Potassium chlorate	KClO ₃	003811-04-9	saturated	O, Xn	1/1	0/0	
Potassium chlorate	KClO ₃	003811-04-9	aqueous	O, Xn	1/1	0/0	
Potassium chloride	KCl	007447-40-7	aqueous	Xi	1/1	1/1	
Potassium chromate	K ₂ CrO ₄	007789-00-6	saturated	T	1/0	1/1	
Potassium chromate	K ₂ CrO ₄	007789-00-6	aqueous	T	0/0	0/0	
Potassium cyanide	KCN	000151-50-8	saturated	T+	1/1	1/1	
Potassium cyanide	KCN	000151-50-8	aqueous	T+	1/1	1/1	
Potassium dichromate	K ₂ Cr ₂ O ₇	007778-50-9	saturated	T	1/1	1/0	
Potassium dichromate	K ₂ Cr ₂ O ₇	007778-50-9	aqueous	T	0/0	0/0	
Potassium ferricyanide	C ₆ FeK ₃ N ₆	013746-66-2	each	Xn	1/1	1/1	
Potassium ferrocyanide	C ₆ FeK ₄ N ₆ x 3H ₂ O	014459-95-1	saturated	—	1/1	1/1	
Potassium ferrocyanide	C ₆ FeK ₄ N ₆ x 3H ₂ O	014459-95-1	diluted	—	1/0	1/1	
Potassium fluoride	KF	007789-23-3		T	1/1	1/1	
Potassium hydrogen carbonate	CHKO ₃	000298-14-6	saturated	—	1/1	1/1	
Potassium hydroxide	KHO	001310-58-3	10 %	C+	1/1	1/1	Caustic potash; Potassium hydrate; Potassium lye
Potassium hydroxide	KHO	001310-58-3	30 %	C+	1/1	1/1	
Potassium hydroxide	KHO	001310-58-3	50 %	C+	1/1	1/1	
Potassium hydroxide	KHO	001310-58-3	concentrated	C+	1/1	1/1	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Potassium hydroxide	KHO	001310-58-3	1 %	Xi	1/1	1/1	
Potassium hypochlorite	KClO	007778-66-7	diluted	(O, C)	1/0	1/3	
Potassium iodate	KJO ₃	007758-05-6		O	0/0	0/0	
Potassium iodide	KJ	007681-11-0	saturated	(Xn)	1/1	1/1	
Potassium iodide	KJ	007681-11-0	aqueous	(Xn)	1/1	1/1	
Potassium lye	-> see: Potassium hydroxide						
Potassium nitrate	KNO ₃	007757-79-1	50 %	O, Xn	1/1	1/1	Salt peter; Nitric acid, potassium salt
Potassium nitrate	KNO ₃	007757-79-1	aqueous	O, Xn	1/1	1/1	
Potassium perchlorate	KClO ₄	007778-74-7	saturated	O, Xn	1/1	1/1	
Potassium perchlorate	KClO ₄	007778-74-7	aqueous	O, Xn	1/1	1/1	
Potassium permanganate	KMnO ₄	007722-64-7	aqueous	O, Xn	0/0	0/0	Permanganic acid, potassium salt; Condy's crystals;
Potassium permanganate	KMnO ₄	007722-64-7		O, Xn	1/3	1/1	
Potassium persulfate	K ₂ (SO ₄) ₂	007727-21-1	each	O, Xn	1/1	1/1	
Potassium sulfate	K ₂ SO ₄	007778-80-5	aqueous	Xn	1/1	1/1	
Potassium sulfide	K ₂ S	001312-73-8	diluted	(C)	1/1	1/1	
Potassium sulfite	K ₂ SO ₃	010117-38-1	saturated	(Xi)	1/1	1/1	
Potassium thiosulfate	K ₂ S ₂ O ₃	010233-00-8	saturated	Xi	1/1	1/1	
Precipitated silica	SiO ₂	001343-98-2	each	—	1/1	1/1	
Prontosil	—	—		(Xn)	0/0	0/0	for chemotherapy; Bayer - no more available
Propane	C ₃ H ₈	000074-98-6	liquid	F+	X	1/0	1/0
Propane	C ₃ H ₈	000074-98-6	gaseous	F+	X	3/4	4/4
Propanetriol, 1,2,3-	-> see: Glycerol						
Propanone, 2-	-> see: Acetone						
Propargyl alcohol	C ₃ H ₄ O	000107-19-7	7 %	Xn	1/1	1/1	
Propenenitrile, 2-	-> see: Acrylonitrile						
Propenyl alcohol	-> see: Allyl alcohol						
Propionic acid	C ₃ H ₆ O ₂	000079-09-4	50 %	C	1/3	1/3	
Propionic acid	C ₃ H ₆ O ₂	000079-09-4		C	1/3	1/3	
Propyl acetate, normal	C ₅ H ₁₀ O ₂	000109-60-4		F	X	0/0	0/0
Propyl alcohol	C ₃ H ₈ O	000071-23-8		F	X	1/1	1/1
Propyl carbinol	-> see: Butyl alcohol, normal						
Propyl nitrate	C ₃ H ₇ NO ₃	000627-13-4		(E, Xn)	(X)	0/0	0/0
Propylamine, n-	C ₃ H ₉ N	000107-10-8		F, C, Xn	X	0/0	0/0
Propylene	C ₃ H ₆	000115-07-1		F+	X	1/1	1/1
Propylene glycol	C ₃ H ₈ O ₂	000057-55-6		—	1/1	1/1	
Propylene oxid	C ₃ H ₆ O	000075-56-9		F+, T	X	1/1	1/2 Epoxypropane, 1,2-; Methyloxirane; Methyl ethylene oxide
Pydraul C (312, 540)	—	—		(Xn)	0/0	0/0	based on phosphoric ester; Monsanto
Pydraul E (29, 30, 50, 65, 90, 11)	—	—		(Xn)	0/0	0/0	based on phosphoric ester; Monsanto
Pyridine	C ₅ H ₅ N	000110-86-1		F, Xn	X	1/3	0/2 Azine; Azabenzene
Pyrogalllic acid	C ₆ H ₆ O ₃	000087-66-1		Xn	0/0	0/0	
Pyroligneous oil	—	008001-20-5		—	0/0	0/0	
Pyrrrole	C ₄ H ₅ N	000109-97-7		Xn	X	0/0	0/0 Azole; Imidole
Quinine	C ₂₀ H ₂₄ N ₂ O ₂	000130-95-0		Xn	1/1	1/1	
Quinol	-> see: Hydroquinone						
Ramasit	—	—		?	0/0	0/0	for moisture-proofing of textiles; BASF
Resorcinol	C ₆ H ₆ O ₂	000108-46-3	5 %	—	1/1	1/1	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Resorcinol	C ₆ H ₆ O ₂	000108-46-3	saturated	Xn	1/1	1/1	
Roaster off-gas	—	—	each	(T)	0/0	0/0	
Rose oil	—	008007-01-0		?	0/0	0/0	
Rum ether	—	008030-89-5		?	0/0	0/0	
Sagrotan	—	—	liquid	?	1/2	1/3	disinfectant; Schülke & Mayr
Salicyl acid	C ₇ H ₆ O ₃	000069-72-7	saturated	(Xn, Xi)	1/1	1/1	
Salicyl acid	C ₇ H ₆ O ₃	000069-72-7	powder	Xn, Xi	1/1	1/1	
Salicylaldehyde	C ₇ H ₆ O ₂	000090-02-8		Xn, Xi	1/1	1/2	
Salt spring	NaCl	007647-14-5	saturated	—	1/1	1/1	
Salt water, sea water	—	—		—	1/1	1/1	
Saltpeter	-> see: Potassium nitrate						
Saturated steam condensate	—	—		?	0/0	0/0	
Sea water	—	—		—	1/1	1/1	
Silicofluoric acid	H ₂ SiF ₆	016961-83-4	32 %	C	1/1	1/1	
Silicone greases	—	—		(—)	0/0	0/0	
Silicone oil	—	—		?	1/1	1/1	polysiloxane
Silver acetate	C ₂ H ₃ AgO ₂	000563-63-3		Xi	1/1	1/1	
Silver cyanide	CAgN	000506-64-9		T	1/1	1/1	
Silver nitrate	AgNO ₃	007761-88-8	aqueous	C	1/1	0/0	lunar caustic
Silver nitrate	AgNO ₃	007761-88-8		C	1/1	1/2	lunar caustic
Skydrol 500 (B4)	—	—		(Xn)	0/0	0/0	based on phosphoric ester; Solutia
Skydrol 7000	—	—		(Xn)	0/0	0/0	based on phosphoric ester; Solutia
Soaps, liquid	—	—		?	1/1	1/1	
Soapy solution	—	—	each	(—)	1/1	0/0	
Sodium acetate	C ₂ H ₃ NaO ₂	000127-09-3	each	—	1/1	1/1	Acetic acid sodium salt;
Sodium benzoate	C ₇ H ₅ NaO ₂	000532-32-1	36 %	Xn	1/1	1/1	
Sodium benzoate	C ₇ H ₅ NaO ₂	000532-32-1	aqueous	Xn	1/1	1/1	
Sodium benzoate	C ₇ H ₅ NaO ₂	000532-32-1		Xn	1/1	1/1	
Sodium bicarbonate	NaHCO ₃	000144-55-8	aqueous	—	1/1	1/1	
Sodium bisulfate	NaHSO ₄	007681-38-1	10 %	(C)	1/1	1/1	
Sodium bisulfate	NaHSO ₄	007681-38-1	each	(C)	1/1	1/1	
Sodium bisulfite	NaHSO ₃	007631-90-5	aqueous	Xn	1/1	1/1	
Sodium borate	Na ₂ B ₄ O ₇ x 10 H ₂ O	001303-96-4	saturated	Xi	1/1	1/1	
Sodium borate	Na ₂ B ₄ O ₇ x 10 H ₂ O	001303-96-4	aqueous	Xi	1/1	1/1	
Sodium bromate	NaBrO ₃	007789-38-0	each	O, T	1/0	1/3	
Sodium bromide	NaBr	007647-15-6	each	Xi	1/1	1/1	
Sodium carbonate	Na ₂ CO ₃	000497-19-8	saturated	Xi	1/1	1/1	
Sodium carbonate	Na ₂ CO ₃	000497-19-8	aqueous	Xi	1/1	1/1	
Sodium carbonate	Na ₂ CO ₃	000497-19-8		Xi	1/1	1/1	
Sodium chlorate	NaClO ₃	007775-09-9	each	O, Xn	1/1	1/0	Chloric acid, sodium salt;
Sodium chlorate	NaClO ₃	007775-09-9	aqueous	O, Xn	0/0	0/0	
Sodium chloride	NaCl	007647-14-5	each	—	1/1	1/1	
Sodium chloride	NaCl	007647-14-5	aqueous	—	1/1	1/1	
Sodium chlorite	NaClO ₂	007758-19-2	diluted	(O, Xn)	1/0	1/3	
Sodium chromate	NaCrO ₄	007775-11-3	diluted	T	1/0	1/0	
Sodium cyanide	CNNa	000143-33-9	saturated	T	1/1	1/1	Hydrocyanic acid, sodium salt;

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Sodium cyanide	CNNa	000143-33-9	aqueous	T	1/1	1/1	
Sodium dichromate	Na ₂ Cr ₂ O ₇	010588-01-9		T	0/0	1/1	
Sodium dithionite	-> see: Sodium hydrosulfite						
Sodium dodecylbenzene sulfonate	C ₁₈ H ₂₉ NaSO ₃	025155-30-0		Xn	1/1	1/1	
Sodium ferrocyanide	C ₆ FeNa ₄ N ₆	013601-19-9		Xn	1/1	1/1	
Sodium fluoride	NaF	007681-49-4	saturated	T	1/1	1/1	
Sodium hydrosulfite	Na ₂ S ₂ O ₄	007775-14-6	10 %	Xn	1/1	0/0	Sodium dithionite; Dithionous acid, disodium salt; Sodium sulfoxylate;
Sodium hydrosulfite	Na ₂ S ₂ O ₄	007775-14-6		Xn	1/1	0/0	
Sodium hydroxide	NaHO	001310-73-2	concentrated	C	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hydroxide	NaHO	001310-73-2	30 %	C+	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hydroxide	NaHO	001310-73-2	45 %	C+	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hydroxide	NaHO	001310-73-2	50 %	C+	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hydroxide	NaHO	001310-73-2	60 %	C+	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hydroxide	NaHO	001310-73-2	1 %	Xi	1/1	1/1	caustic soda, sodium hydrate, soda lye
Sodium hypochlorite	NaClO	007681-52-9	diluted	(O, C)	2/3	2/3	sodium oxychloride, sodium chloride oxide
Sodium hypochlorite	NaClO	007681-52-9	15 %	O, C	2/3	2/3	sodium oxychloride, sodium chloride oxide
Sodium hypochlorite	NaClO	007681-52-9	saturated	O, C	2/3	2/3	sodium oxychloride, sodium chloride oxide
Sodium hypochlorite	NaClO	007681-52-9	12,5 % Cl	O, C	2/3	2/3	sodium oxychloride, sodium chloride oxide
Sodium iodide	NaI	007681-82-5	each	Xi	1/1	1/1	
Sodium metabisulfite	Na ₂ S ₂ O ₅	007681-57-4	each	Xn	1/1	1/1	
Sodium nitrate	NaNO ₃	007631-99-4	saturated	O, Xn	1/1	1/1	chile saltpeter
Sodium nitrate	NaNO ₃	007631-99-4	aqueous	O, Xn	1/1	1/1	chile saltpeter
Sodium nitrite	NaNO ₂	007632-00-0	saturated	O, T	1/1	1/1	Nitrous acid, sodium salt;
Sodium nitrite	NaNO ₂	007632-00-0	aqueous	O, T	1/1	1/1	
Sodium oxalate	C ₂ Na ₂ O ₄	000062-76-0	saturated	Xn	1/1	1/1	
Sodium perborate	NaBO ₂ (HO) ₂ x 3H ₂ O	013517-20-9	saturated	(O, Xn)	1/1	1/1	
Sodium perborate	NaBO ₂ (HO) ₂ x 3H ₂ O	013517-20-9	aqueous	(O, Xn)	1/1	1/1	
Sodium perchlorate	NaClO ₄	007601-89-0	saturated	O, Xn	1/1	1/1	
Sodium peroxide	Na ₂ O ₂	001313-60-6	10 %	O, C+	0/0	1/3	
Sodium peroxide	Na ₂ O ₂	001313-60-6	saturated	O, C+	0/0	3/3	
Sodium persulfate	Na ₂ S ₂ O ₈	007775-27-1	saturated	O, Xi	1/1	0/0	
Sodium phosphate	Na ₃ PO ₄ x 12H ₂ O	010101-89-0	saturated	Xi	1/1	1/1	
Sodium phosphate	Na ₃ PO ₄ x 12H ₂ O	010101-89-0	aqueous	Xi	1/1	1/1	
Sodium polyphosphates	(NaPO ₃) ₆	068915-31-1	saturated	—	1/1	1/1	
Sodium silicate	Na ₂ Si ₃ O ₇	001344-09-8	each	C, Xn	1/1	1/1	
Sodium silicate	Na ₂ Si ₃ O ₇	001344-09-8	saturated	C, Xn	1/1	1/1	waterglass
Sodium stearate	C ₁₈ H ₃₅ NaO ₂	000822-16-2	aqueous	(Xi)	1/1	1/1	
Sodium sulfate	Na ₂ SO ₄	007757-82-6	saturated	—	1/1	1/1	
Sodium sulfate	Na ₂ SO ₄	007757-82-6	aqueous	—	1/1	1/1	
Sodium sulfate	Na ₂ SO ₄	007757-82-6		—	1/1	1/1	
Sodium sulfide	Na ₂ S	001313-82-2	saturated	C	1/1	1/1	
Sodium sulfide	Na ₂ S	001313-82-2	aqueous	C	1/1	1/1	
Sodium sulfite	Na ₂ SO ₃	007757-83-7	saturated	Xn	1/1	1/1	Sulfurous acid, disodium salt;
Sodium sulfoxylate	-> see: Sodium hydrosulfite						
Sodium thiosulfate	Na ₂ S ₂ O ₃ x 5H ₂ O	010102-17-7	each	Xi	1/1	1/1	fixer natron, "sodium hyposulfite"
Sodium thiosulfate	Na ₂ S ₂ O ₃ x 5H ₂ O	010102-17-7	saturated	Xi	1/1	1/1	fixer natron, "sodium hyposulfite"

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Sodium thiosulfate	Na ₂ S ₂ O ₃ x 5H ₂ O	010102-17-7	aqueous	Xi	1/1	1/1	fixer natron, "sodium hyposulfite"
Soft soap	—	—	diluted	?	1/3	1/1	
Soya oil	—	008001-22-7	—	—	0/0	0/0	
Spermaceti	—	008002-23-1	—	—	0/0	1/3	
Spindle oil	—	—	—	?	3/3	2/3	
Spinning bath acid	—	—	100mg CS ₂ /l	?	1/0	0/0	
Spirit (of wine)	C ₂ H ₆ O	—	—	F	X	1/0	ethyl alcohol
Spirits	C ₂ H ₆ O	—	—	—	1/1	1/0	ethyl alcohol 40 %
Spirits of Turpentine	—	008006-64-2	—	Xn	X	2/2	3/4
Spirits of wine	C ₂ H ₆ O	—	50 %	(F)	X	1/0	1/1 ethyl alcohol
Spirits of wine	C ₂ H ₆ O	—	96 %	F	X	1/0	1/3 ethyl alcohol
Spruce oil	—	008008-80-8	—	?	1/2	2/4	pinus sylvestris
Stannic chloride	SnCl ₄	007646-78-8	aqueous	C	1/1	1/1	
Stannous chloride	SnCl ₂	007772-99-8	aqueous	(C, Xn)	1/1	1/1	
Stannous chloride	SnCl ₂	007772-99-8	saturated	C, Xn	1/1	1/1	
Starch solution	(C ₆ H ₁₀ O ₅) _n	—	each	—	1/1	1/1	
Starch syrup	—	—	—	—	1/1	1/1	
Stauffer grease, thick	—	—	—	(—)	0/0	0/0	
Steam	H ₂ O	—	up to 150°C	?	4	4	
Stearic acid	C ₁₈ H ₃₆ O ₂	000057-11-4	crystals	Xi	1/3	1/3	
Strontium bromide	SrBr ₂	010476-81-0	—	Xi	1/1	1/1	
Strychnine	C ₂₁ H ₂₂ N ₂ O ₂	000057-24-9	—	T+	1/1	1/1	
Styrene	C ₈ H ₈	000100-42-5	100 %	Xn, Xi	X	4/4	3/4
Succinic acid	C ₄ H ₆ O ₄	000110-15-6	50 %	Xi	1/1	1/1	
Succinic acid	C ₄ H ₆ O ₄	000110-15-6	saturated	Xi	1/1	1/1	
Sugar acid	—	—	saturated	(Xi)	1/1	1/1	
Sugar beet juice	—	—	—	—	1/1	1/1	
Sugar syrup	—	—	—	—	1/1	1/1	
Sulfur	S ₈	007704-34-9	techn. pure	Xi	1/1	1/1	flower of sulfur
Sulfur (mono)chloride	S ₂ Cl ₂	010025-67-9	—	C	0/0	0/0	
Sulfur dioxide	SO ₂	007446-09-5	damp	T, C	1/1	1/1	with H ₂ O->sulfurous acid
Sulfur dioxide	SO ₂	007446-09-5	liquid	T, C	3/4	4/4	with H ₂ O->sulfurous acid
Sulfur hexafluoride	SF ₆	002551-62-4	—	—	0/0	0/0	
Sulfur trioxide	SO ₃	007446-11-9	—	C+	4/4	4/4	
Sulfur, melted, 121 °C	S ₈	007704-34-9	—	?	0	0	
Sulfuric acid	H ₂ SO ₄	007664-93-3	40 %	C+	1/1	1/1	
Sulfuric acid	H ₂ SO ₄	007664-93-3	60 %	C+	1/3	1/3	
Sulfuric acid	H ₂ SO ₄	007664-93-3	80 %	C+	1/1	1/1	
Sulfuric acid	H ₂ SO ₄	007664-93-3	95 %	C+	3/4	3/4	
Sulfuric acid	H ₂ SO ₄	007664-93-3	fuming	C+	4/4	4/4	oleum
Sulfuric acid	H ₂ SO ₄	007664-93-3	1-6 %	Xi	1/1	1/1	
Sulfuric acid	H ₂ SO ₄	007664-93-3	20 %	Xi	1/1	1/1	
Sulfuric acid	-> see: Battery acid	—	—	—	—	—	
Sulfurous acid	H ₂ SO ₃	007782-99-2	saturated	(C)	1/1	1/1	
Sulfurous acid, disodium salt	-> see: Sodium sulfite	—	—	—	—	—	
Sulfuryl chloride	Cl ₂ SO ₂	007791-25-5	techn. pure	C	4/4	4/4	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Tallow	—	—	techn. pure	—	1/1	1/1	
Tannic acid	C ₇₆ H ₅₂ O ₄₆	001401-55-4	10 %	Xi	1/1	1/1	
Tannic acid	C ₇₆ H ₅₂ O ₄₆	001401-55-4		Xi	1/1	1/1	
Tanning extracts	—	—		?	1/1	1/1	
Tanning extracts, vegetable	—	—	techn. usually	?	1/1	1/1	
Tar	—	—		T	0/0	1/0	
Tartaric acid	C ₄ H ₆ O ₆	000087-69-4	aqueous	Xi	1/1	1/1	
Tartaric acid	C ₄ H ₆ O ₆	000087-69-4		Xi	1/1	1/1	
Tetrabromoethane (TBE)	C ₂ H ₂ Br ₄	—	100 %	T+	4/4	3/4	isomer not indicated in the source
Tetrachlorethane	C ₂ H ₂ Cl ₄	—	techn. pure	T+	3/0	3/4	isomer not indicated in the source
Tetrachlorodifluoroethane	C ₂ Cl ₄ F ₂	000076-12-0		?	0/0	0/0	
Tetrachloroethylene	C ₂ Cl ₄	000127-18-4		Xn	4/4	4/4	Perchloroethylene; Tetrachloroethene
Tetrahydrofuran (THF)	C ₄ H ₈ O	000109-99-9		F, Xi	X	3/4	4/4
Tetrahydrofurfuryl alcohol	C ₆ H ₁₀ O ₂	000097-99-4		Xi		0/0	0/0
Tetrahydronaphthalene	C ₁₀ H ₁₂	000119-64-2	techn. pure	Xi	3/4	4/4	
Thiocyanic acid, ammonium salt	-> see: Ammonium thiocyanate						
Thioglycolic acid	C ₂ H ₄ SO ₂	000068-11-1		T, C	0/0	1/1	
Thionyl chloride	Cl ₂ SO	007719-09-7	techn. pure	C	4/4	4/4	
Thiophene	C ₂ H ₄ S	000110-02-1		F, Xn	X	3/3	3/3
Thymol	C ₁₀ H ₁₄ O	000089-83-8		C, Xn	0/0	0/0	
Titanium (tetra)chloride	TiCl ₄	007550-45-0		C	0/0	0/0	
Toluene	—	092045-38-0	100 %	T	1/0	1/3	
Train oil	—	—		—	0/0	0/0	
Transformer oil	—	—		?	1/3	3/3	
Triacetin	C ₉ H ₁₄ O ₆	000102-76-1		Xn	0/0	0/0	
Tribromomethane	CHBr ₃	000075-25-2		T	4/4	4/4	
Tributyl citrate (TBC)	C ₁₈ H ₃₂ O ₇	000077-94-1		—	1/2	2/3	
Tributyl phosphate (TBP)	C ₁₂ H ₂₇ PO ₄	000126-73-8	techn. pure	Xn	1/1	1/1	
Trichloroacetaldehyde	C ₂ HCl ₃ O	000075-87-6	100 %	T/Xi	1/1	1/1	
Trichloroacetic acid (TCA)	C ₂ HCl ₃ O ₂	000076-03-9		C+	1/4	3/4	
Trichlorobenzene	C ₆ H ₃ Cl ₃	—	100 %	(Xn)	4/4	4/4	isomer not indicated in the source
Trichloroethane	C ₂ H ₃ Cl ₃	—		Xn	3/4	4/4	isomer not indicated in the source
Trichloroethylene (TRI)	C ₂ HCl ₃	000079-01-6	100 %	Xn	3/4	4/4	
Trichlorofluoromethane	CCl ₃ F	000075-69-4		N	0/0	0/0	
Trichlorophenol	C ₆ H ₃ Cl ₃ O	—		(Xn, Xi)	0/0	0/0	isomer not indicated in the source
Trichlorotrifluoroethane	C ₂ Cl ₃ F ₃	000076-13-1		?	0/0	0/0	
Trichlorotrifluoroethane	C ₂ Cl ₃ F ₃	—	100 %	?	4/4	3/4	isomer not indicated in the source
Tricresyl phosphate (TCF)	C ₂₁ H ₂₁ PO ₄	—	techn. pure	T/Xn, N	1/1	1/1	isomer not indicated in the source
Triethanolamine (TEA)	C ₆ H ₁₅ NO ₃	000102-71-6	techn. pure	Xi	1/1	1/2	
Triethylamine (TEA)	C ₆ H ₁₅ N	000121-44-8	techn. pure	F, C, Xn	X	0/0	0/0
Triethylene glycol	C ₆ H ₁₄ O ₄	000112-27-6		Xi	1/1	1/1	
Triethylene glycol diacetate	C ₁₀ H ₁₈ O ₆	000111-21-7		?	0/0	0/0	
Trihydroxypropane, 1,2,3-	-> see: Glycerol						
Triiodomethane	-> see: Iodoform						
Triisopropylbenzene	C ₁₅ H ₂₄	000717-74-8		—	0/0	0/0	

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Trimethylbenzene, 1,2,4-	C ₉ H ₁₂	000095-63-6		Xn	X	0/0	0/0
Trimethylolpropane	C ₆ H ₁₄ O ₃	000077-99-6	aqueous	—		0/0	0/0
Trimethylpentane, 2,2,4-	C ₈ H ₁₈	000540-84-1	techn. pure	F, Xn	X	1/3	1/3 Iso-octane; Isobutyltrimethylmethane
Trioctyl phosphate	C ₂₄ H ₅₄ PO ₄	000078-42-2	techn. pure	(Xn)		3/0	1/0 Tris(2-ethylhexyl) phosphate
Tripropylene glycol (TPG)	C ₉ H ₂₀ O ₄	024800-44-0		(—)		1/1	1/1
Trisodium phosphate	Na ₃ PO ₄	007601-54-9		Xi		1/1	1/1
Turbine oil (based on mineral oil)	—	—		?		0/0	0/0
Turpentine surrogate	—	—		Xn, N	X	0/0	0/0
Two-stroke oil	—	—	100 %	—		0/0	1/3
Undecanol	C ₁₁ H ₂₄ O	000112-42-5		Xi		1/2	1/3
Urea	CH ₄ N ₂ O	000057-13-6	aqueous	Xi		1/1	1/1
Urea	CH ₄ N ₂ O	000057-13-6		Xi		1/1	1/1
Uric acid	C ₅ H ₄ N ₄ O ₃	000069-93-2		Xi		1/1	1/1
Urine	—	—		—		1/1	1/1
Urotropin	-> see: Hexamethylenetetramine						
Valerian drops	—	—		?		0/0	0/0
Vaseline	—	008009-03-8	techn. pure	(—)		3/4	2/3 petrolatum
Vaseline oil	—	008012-95-1	100 %	?		0/0	1/3 paraffin oil
Vaseline oil	—	008012-95-1		?		1/1	1/3 paraffin oil
Vegetable oils	—	—		—		0/0	0/0
Vinegar	C ₂ H ₄ O ₂	000064-19-7		(Xi)		1/1	1/3
Vinyl acetate	C ₄ H ₆ O ₂	000108-05-4	techn. pure	F	X	0/0	1/1
Vinyl carbinol	-> see: Allyl alcohol						
Vinyl chloride (VCM)	C ₂ H ₃ Cl	000075-01-4	techn. pure	F+, T	X	0/0	0/0 Chloroethene; Chloroethylene
Vinyl cyanide	-> see: Acrylonitrile						
Vinylidene chloride	C ₂ H ₂ Cl ₂	000075-35-4		F+, Xn	X	4/4	4/4
Vitamin C	C ₆ H ₈ O ₆	000050-81-7	liquid	—		1/1	1/1
Walnut oil	—	008024-09-7		—		0/0	0/0
Washingup liquid	—	—	aqueous	?		1/1	1/1
Water	H ₂ O	007732-18-5		—		1/1	1/1
Water, distilled ~	H ₂ O	007732-18-5		—		1/1	1/1
Wax alcohol	—	—	techn. pure	(—)		3/4	3/4
Waxes	—	—		—		0/0	1/3
Wetting agent	—	—	5 %	?		1/0	0/0 detergents
Whey	—	—		—		1/1	0/0
Whiskey	—	—		—		0/0	0/0 whisky, scotch, bourbon
White Spirit	—	008042-47-5		Xn		1/0	1/0
Wines	—	—		—		1/1	1/1
Wort for fermentation	—	—		?		1/1	1/1
Xenon	Xe	007440-63-3		—		0/0	0/0
Xylene	C ₈ H ₁₀	001330-20-7		(F), Xn	X	3/4	3/4
Yeast	—	—	each	—		1/1	1/1
Zinc acetate	C ₄ H ₆ ZnO ₄	000557-34-6	aqueous	Xn, Xi		1/1	1/1
Zinc bromide	ZnBr ₂	007699-45-8		C, Xn		1/1	1/1
Zinc carbonate	ZnCO ₃	003486-35-9	saturated	?		1/1	1/1 small solubility - no chemical effect expected
Zinc chloride	ZnCl ₂	007646-85-7	aqueous	(C, Xn)		1/1	1/1

CHEMICALS	FORMULA	CAS-NO.	CONCENTRATION	HAZARD NOTE	FLAMMABLE HDPE	LDPE	COMMENT
Zinc nitrate	Zn(NO ₃) ₂	007779-88-6		O, C, Xn	1/1	1/1	
Zinc oxide	ZnO	001314-13-2	solid	Xn, Xi	1/1	1/1	small solubility - no chemical effect expected
Zinc oxide ointment	—	—		?	0/0	0/0	
Zinc phosphate	Zn ₃ (PO ₄) ₂	007779-90-0	saturated	?	1/1	1/1	
Zinc sludge	—	—		?	0/0	0/0	
Zinc stearate	C ₃₆ H ₇₀ ZnO ₄	000557-05-1		Xi	1/1	1/1	
Zinc sulfate	ZnSO ₄	007733-02-0	10 %	—	1/1	1/1	
Zinkchlorid	ZnCl ₂	007646-85-7	10 %	C, Xn	1/1	1/1	