

Important information

The tables “Chemical resistance of plastics”, “Plastics and their properties” and “Viscosity of liquids” 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. A 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.

Copyright

This table has been published and updated by Bürkle GmbH, D-79415 Bad Bellingen as a work of reference. This Copyright clause must not be removed. The table may be freely passed on and copied, provided that the information about the publisher is retained.

Extensions, additions and translations

If your own experiences with materials and media could be used to extend this table then we would be pleased to receive any additional information. Please send an E-Mail to info@buerkle.de. We would also like to receive translations into other languages. Please visit our website at www.buerkle.de from time to time and download the updated version of these lists.

Publisher

Bürkle GmbH
Rheinauen 5
D-79415 Bad Bellingen
Tel +49 (76 35) 8 27 95-0
Fax +49 (76 35) 8 27 95-31
info@buerkle.de
www.buerkle.de

Version 3.9 (11.01.2021)

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	thermoplastics														fluoroplastics		elastomers		metals		COMMENT																							
						HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE /ETFE	FEP	PTFE	PVDF	EPDM	FPM /FKM	NBR		SI	AL	V2A	V4A	Hastelloy C																		
Acetaldehyde	C ₂ H ₄ O	000075-07-0	40 %	F+, Xn	X	3/3	2/4	2/0	4/4	(4)	2/4	2/0	3/4	4/4	4/4	4/4	0/0	4/4	2/3	(1)	1/1	4/4	3/0	4/4	4/4	0/0	(1)	(1)	(1)	3/4	Acetic aldehyde; Ethanal; Ethyl aldehyde																		
Acetaldehyde	C ₂ H ₄ O	000075-07-0	techn. pure	F+, Xn	X	3/3	2/4	2/0	4/4	(4)	2/4	2/0	3/4	4/4	4/4	4/4	0/0	4/4	2/3	(1)	1/1	4/4	3/0	4/4	4/4	0/0	(1)	(1)	(1)	1/1																			
Acetamide	C ₂ H ₅ NO	000060-35-5	saturated	Xn		1/1	1/1	1/0	4/4	0/0	1/1	1/0	1/1	1/1	4/4	4/4	0/0	1/1	1/1	1/1	1/1	1/1	1/0	4/4	1/0	0/0	(1)	(1)	(1)	1/1																			
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	50 %	C		1/1	1/1	4/4	1/2	0/0	1/1	3/4	1/1	2/2	2/2	1/2	0/0	0/0	1/2	1/1	1/1	1/1	4/4	4/4	4/4	0/0	1/3	1/1	1/1	1/1																			
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	100 %	C+	X	0/0	0/0	4/4	4/4	4/4	(3)	4/4	1/3	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	4/4	4/4	4/4	0/0	1/3	1/2	1/2	1/1																			
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	90%	C+	X	1/1	1/2	4/4	4/4	4/4	1/3	4/4	1/2	4/4	3/4	1/2	4/4	4/4	1/1	1/1	1/1	1/1	4/4	4/4	4/4	0/0	1/3	1/2	1/2	1/1																			
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	10 %	Xi		1/1	1/1	4/4	1/2	1/1	3/0	1/4	1/1	1/1	1/0	1/3	1/0	1/3	1/1	1/1	1/1	1/1	(2)	(3)	3/3	0/0	1/3	1/1	1/1	1/1																			
Acetic acid	C ₂ H ₄ O ₂	000064-19-7	5 %	Xi		1/1	1/3	4/4	1/2	1/1	1/1	1/3	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/0	3/3	3/3	0/0	1/3	1/2	1/1	1/1	1/1																			
Acetic acid chloride	-> see: Acetyl chloride																																																
Acetic acid sodium salt	-> see: Sodium acetate																																																
Acetic aldehyde	-> see: Acetaldehyde																																																
Acetic anhydride	C ₂ H ₄ O ₃	000108-24-7	techn. pure	C	X	4/4	3/3	3/3	4/4	0/0	4/4	(2)	1/3	4/4	4/4	4/4	4/4	0/0	0/0	1/0	1/1	4/4	3/0	4/4	4/4	0/0	(2)	1/1	1/1	1/1																			
Acetic chloride	-> see: Acetyl chloride																																																
Acetone	C ₂ H ₆ O	000067-64-1		F, Xi	X	1/1	3/3	1/0	4/4	4/4	2/3	1/3	1/3	4/4	4/4	4/4	0/0	4/4	2/3	(1)	1/1	3/4	1/0	4/4	4/4	0/0	1/1	1/1	1/1	1/1	Propanone, 2-; Dimethyl ketone; Methyl ketone																		
Acetonitrile	C ₂ H ₃ N	000075-05-8		F, T	X	1/1	1/1	1/0	4/4	(4)	3/4	(3)	3/4	4/4	4/4	4/4	0/0	0/0	1/1	(1)	(1)	1/1	(3)	(3)	4/4	0/0	(1)	(1)	(1)	0/0	Methyl cyanide; Cyanomethane; Ethanitrile																		
Acetyl chloride	-> see: Chloroacetone																																																
Acetophenone	C ₈ H ₈ O	000098-86-2		Xn		0/0	1/0	1/0	(4)	(4)	(4)	1/0	1/3	0/4	0/0	4/4	4/4	0/4	1/1	0/0	1/1	1/3	1/0	4/4	4/4	0/0	1/1	(1)	(1)	0/0	Phenylethanone, 1-; Phenyl methyl ketone; Acetylbenzene																		
Acetyl chloride	C ₂ H ₃ ClO	000075-36-5	100 %	F, C	X	0/0	0/0	4/4	4/4	(4)	4/4	3/4	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/0	1/1	4/4	1/0	4/4	0/0	4/4	1/2L	1/1L	0/0	Acetic chloride; Ethanoyl chloride; Acetic acid chloride																		
Acetylene	C ₂ H ₂	000074-86-2	100 %	F+	X	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	0/0	0/0	2/0	4/4	3/0	(1)	1/1	1/0	(1)	1/0	1/0	1/0	0/0	(1)	(1)	1/1	1/1	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	1/0	0/0	(2)	0/0	(3)	1/2	1/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/2	(2)	(3)	0/0	0/0	1/0	1/0	1/0	1/0	Acetyloxybenzoic acid, 2-;																		
Acrylonitrile	C ₃ H _{3.5} N	000107-13-1		F, T	X	1/1	1/3	1/0	4/4	(4)	3/4	(3)	3/4	4/4	4/4	4/4	0/0	1/2	1/1	1/0	3/3	4/4	4/4	4/4	0/0	1/0	1/0	1/0	1/1	1/1	Cyanoethylene; Propenenitrile, 2-; Vinyl cyanide																		
Adipic acid	C ₆ H ₁₀ O ₄	000124-04-9	saturated	Xi		1/1	1/2	0/0	1/1	(2)	1/1	1/3	1/1	1/1	2/2	1/3	1/3	0/0	1/1	1/1	1/1	1/0	1/0	1/0	1/1	0/0	1/0	(2)	(2)	1/1	Hexanedioic acid; Butanedicarboxylic acid, 1,4-																		
Alanine, L-	C ₃ H ₇ NO ₂	000056-41-7		—		1/1	1/1	1/1	4/4	(2)	1/1	(1)	1/1	1/1	4/4	4/4	0/0	0/0	1/1	1/1	1/1	(1)	1/0	(1)	(1)	0/0	(2)	(2)	(2)	Aminopropanoic acid, L-2; aminopropanoic acid, alpha-																			
Allspice	—	—	ground	?		0/0	0/0	(2)	4/4	0/0	(2)	4/4	0/0	0/0	0/0	0/0	3/3	0/0	(1)	(1)	(1)	(2)	(2)	(2)	0/0	(1)	(1)	(1)	(1)																				
Allyl acetate	C ₆ H ₁₀ O ₂	000591-87-7	100 %	F, T	X	0/0	1/3	4/4	4/4	(4)	(4)	(2)	1/3	4/4	0/0	0/0	4/4	0/0	0/0	(1)	1/1	(2)	(3)	4/4	4/4	0/0	(1)	(1)	(1)																				
Allyl alcohol	C ₃ H ₆ O	000107-18-6	96 %	F, T	X	1/3	3/3	3/0	3/3	1/0	1/2	(2)	2/2	2/4	2/3	2/3	4/4	4/4	1/1	1/1	(2)	1/0	4/4	3/0	0/0	1/1	1/1	1/1	1/1	1/1	Vinyl carbinol; Propenyl alcohol																		
Allyl chloride	C ₃ H ₅ Cl	000107-05-1	100 %	F, T+	X	(3)	3/4	0/0	(4)	(4)	(4)	0/0	0/0	0/0	4/4	0/0	0/0	0/0	(1)	(1)	(2)	1/1	4/4	(3)	4/4	0/0	1/1	(1L)	0/0	Chloro-1-propene, 3-; Chloropropylene, 3-																			
Allyl mustard oil	C ₆ H ₉ NS	000057-06-7		T	X	0/0	0/0	0/0	(4)	(3)	(4)	(2)	(2)	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	(3)	(3)	(4)	0/0	(1)	(1)	(1)		oleum sinapis																			
Almond oil, sweet	—	008007-69-0		—		0/0	0/0	(2)	(1)	1/0	0/0	(2)	3/4	0/0	0/0	0/0	1/1	0/0	(1)	1/1	1/1	4/4	(1)	(2)	0/0	(1)	1/1	1/1																					
Alumina acidic	C ₂ H ₇ AlO ₅ x H ₂ O	000142-03-0	saturated	Xi		1/1	1/0	(2)	(2)	0/0	1/0	1/1	1/0	1/0	1/0	1/0	1/1	1/1	1/1	(1)	1/0	4/4	3/3	0/0	(1)	1/1	1/1	1/1	1/1																				
Aluminium fluoride	AlF ₃	007789-18-1	aqueous	Xi		1/1	1/1	(3)	(2)	(2)	1/1	3/4	1/1	0/0	0/0	1/3	1/3	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/1	0/0	1/1	0/0	0/0	0/0																			
Aluminum ammonium sulfate dodecahydrate	(NH ₄) ₂ Al(SO ₄) ₂	007784-26-1	saturated	Xi		1/1	1/1	3/4	(2)	(2)	0/0	3/4	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	1/0	(2)	1/1	0/0	1/0	1/2	1/3	0/0																			
Aluminum chloride	AlCl ₃	007784-13-6	10 %	?		1/1	1/2	1/0	1/0	(2)	1/1	3/4	1/1	0/0	1/1	0/0	1/1	0/0	1/1	2/2	1/1	1/1	1/1	1/0	1/0	1/0	0/0	4/4	4/4	3/4	1/1																		
Aluminum chloride	AlCl ₃	007784-13-6	solid	C		1/1	1/1	3/4	(3)	0/0	0/0	4/4	1/1	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(2)	(3)	(3)	(3)	0/0	4/4	4/4	3/4	1/1																				
Aluminum chloride	AlCl ₃	007784-13-6	saturated	C		1/1	1/1	3/4	(2)	0/0	0/0	4/4	1/1	0/0	0/0	1/1	0/0	1/1	0/0	1/1	(1)	1/1	(2)	1/0	1/1	0/0	4/4	4/4	3/4	1/1																			
Aluminum hydroxide	Al(OH) ₃	021645-51-2		Xi		1/1	1/2	1/1	1/1	1/1	1/2	1/1	1/2	2/2	2/2	1/2	1/1	1/1	1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	small solubility - no chemical effect expected																		
Aluminum nitrate	Al(NO ₃) ₃	013473-90-0	aqueous	(O)		1/1	1/0	1/4	1/0	(2)	1/0	3/4	1/1	1/0	1/0	1/0	1/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/0	0/0	4/4	1/0	1/0	1/1																			
Aluminum oxide, alpha-	Al ₂ O ₃	001344-28-1	solid	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	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	1/0	1/0	(2)	0/0	3/4	1/1	1/1	1/0	1/3	1/3	1/1	1/1	1/1	1/1	1/1	1/1	1/0	3/0	0/0	1/0	1/1	1/1	1/1																			
Aluminum potassium sulfate	KAl(SO ₄) ₂ x 12H ₂ O	010043-67-1	saturated	Xi		1/1	1/1	1/0	1/0	(2)	0/0	3/4	1/1	1/0	1/0	1/3	1/3	0/0	1/1	1/1	1/1	1/1	1/1	1/0	3/3	0/0	1/0	(1)	(1)	0/0																			
Aluminum sodium sulfate	NaAl(SO ₄) ₂	010102-71-3		?		1/1	1/1	(3)	(2)	(1)	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/0	(1)	(2)	0/0	1/3	(1)	(1)																				
Aluminum sulfate	Al ₂																																																

CHEMICALS	thermoplastics															fluoroplastics			elastomers			metals			COMMENT							
	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	FEP	PTFE	PVDF	EPDM	FKM / FKM		NBR	SI	AL	V2A	V4A	Hastelloy C	
Butter	—	—	—	—	—	1/0	1/0	1/0	1/0	1/0	0/0	1/1	1/1	1/1	0/0	0/0	0/0	1/1	0/0	1/1	1/1	(1)	3/0	1/0	1/1	0/0	(1)	(1)	(1)			
Butyl acetate, normal	C ₈ H ₁₆ O ₂	000123-86-4	100 %	—	X	2/2	2/3	1/0	4/4	3/0	3/3	(2)	3/4	4/4	4/4	4/4	4/4	1/2	1/1	1/1	1/4	3/0	4/4	4/4	0/0	1/1	(1)	(1)	(1)	4/4		
Butyl acrylate	C ₈ H ₁₂ O ₂	000141-32-2	100 %	Xi	X	1/2	2/3	2/0	4/4	1/3	2/3	(2)	3/4	4/4	4/4	4/4	4/4	1/1	1/1	1/1	1/3	4/4	4/4	4/4	0/0	1/1	1/1	1/1	1/1	1/0		
Butyl alcohol, normal	C ₄ H ₁₀ O	000071-36-3	techn. pure	Xn	X	1/1	1/3	1/0	2/3	1/0	1/2	1/2	1/2	1/2	2/3	2/3	4/4	1/3	1/1	1/1	1/1	2/0	3/4	1/0	0/0	1/1	(1)	(1)	0/0	0/0	Propyl carbinol; Butanol	
Butyl alcohol, sec-	C ₄ H ₁₀ O	000078-92-2	—	Xn	X	1/1	1/2	(1)	2/3	1/0	1/2	(1)	1/2	2/2	2/3	2/2	0/0	0/0	1/1	1/1	1/1	3/0	(1)	(2)	0/0	1/1	(1)	(1)		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	(1)	2/3	1/0	1/2	(1)	1/2	1/1	2/3	1/2	0/0	0/0	1/1	1/1	1/1	3/0	(1)	(2)	0/0	1/1	(1)	(1)				
Butyl aldehyde	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Butyl carbinol, n-	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Butyl ether, (Di-) n-	C ₈ H ₁₈ O	000142-96-1	techn. pure	Xi	X	3/4	1/4	(2)	(3)	1/0	(4)	(1)	3/4	0/0	3/0	4/4	0/0	0/0	(1)	1/1	1/1	4/4	4/4	4/4	0/0	1/1	(1)	(1)	0/0	0/0	Butoxybutane, 1-;	
Butyl ethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Butyl stearate	C ₂₂ H ₄₄ O ₂	000123-95-5	100 %	Xi	—	0/0	0/0	(1)	(3)	1/0	0/0	(2)	(2)	0/0	0/0	1/0	1/0	0/0	0/0	(1)	(1)	(1)	4/4	1/0	4/4	0/0	(1)	1/1	1/1	0/0		
Butylamine	C ₄ H ₁₁ N	000109-73-9	—	F, C	X	0/0	0/0	0/0	(3)	0/0	0/0	3/4	2/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	4/4	4/4	0/0	(1)	(1)	(1)	0/0			
Butylene glycol	C ₄ H ₁₀ O ₂	—	techn. pure	—	—	1/1	1/1	1/0	1/0	1/0	0/0	1/1	0/0	0/0	1/3	0/0	0/0	0/0	1/1	1/1	1/1	1/0	4/4	(1)	0/0	1/1	(1)	(1)	0/0	0/0	isomer not indicated in the source	
Butylene hydrate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Butylphenol	C ₁₀ H ₁₄ O	—	100 %	Xi	—	0/0	1/1	(3)	(3)	0/0	(3)	(4)	1/1	0/0	0/0	3/4	4/4	0/0	0/0	(1)	1/1	1/1	4/4	3/0	4/4	0/0	1/1	1/1	1/1	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	(3)	(3)	0/0	(3)	(4)	1/0	0/0	0/0	3/0	0/0	0/0	(1)	1/0	1/1	4/4	3/0	4/4	0/0	1/1	1/1	1/1				
Butyraldehyde	C ₄ H ₈ O	000123-72-8	—	F, Xn	X	0/0	0/0	(3)	(3)	0/0	(4)	(2)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(2)	(3)	3/0	4/4	4/4	0/0	(1)	(1)	(1)		Butanal; Butyl aldehyde		
Butyric acid	C ₄ H ₈ O ₂	000107-92-6	—	C	—	3/4	4/4	3/3	4/4	0/0	4/4	4/4	4/4	2/2	2/4	4/4	4/4	1/1	1/1	1/1	1/1	4/4	3/4	4/4	0/0	1/2	1/2	1/1	1/1			
Cadmium bromide	CdBr	007789-42-6	—	T	—	1/1	1/1	(3)	(2)	0/0	(3)	(1)	1/1	0/0	0/0	0/0	0/0	1/1	0/0	1/1	(1)	(2)	(2)	(2)	0/0	4/4	0/0	0/0				
Calcium bicarbonate	Ca(HCO ₃) ₂	—	saturated	—	—	1/1	1/1	1/1	(1)	(1)	0/0	1/1	1/1	0/0	0/0	1/0	1/0	0/0	1/1	1/1	1/1	1/0	(1)	(1)	0/0	(2)	(1)	(1)	0/0			
Calcium bisulfite	Ca(HSO ₃) ₂	013780-03-5	saturated	Xn	—	1/1	1/1	(3)	(2)	0/0	0/0	4/4	1/1	0/0	0/0	1/0	0/0	0/0	1/1	1/1	1/1	4/4	1/0	3/3	0/0	(3)	1/1	1/3	1/1			
Calcium bisulfite	Ca(HSO ₃) ₂	013780-03-5	aqueous	Xn	—	1/1	1/1	(3)	(2)	0/0	0/0	4/4	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	4/4	1/0	3/3	0/0	(3)	1/1	1/3	1/1			
Calcium bromide	CaBr ₂	007789-41-5	—	?	—	1/1	1/1	(2)	(1)	(2)	0/0	(3)	1/1	1/1	0/0	0/0	0/0	1/1	1/1	1/1	1/1	(1)	(1)	(1)	0/0	(3)	0/0	0/0	0/0			
Calcium carbide	CaC ₂	000075-20-7	—	F	X	1/1	1/1	(2)	(2)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	(2)	(2)	(2)	0/0	(3)	(1)	(1)	0/0	carbide, reacts with water to acetylene - highly flammable!		
Calcium carbonate	CaCO ₃	000471-34-1	saturated	—	—	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	small solubility - no chemical effect expected	
Calcium chlorate	Ca(ClO ₃) ₂	010137-74-3	saturated	O, (T)	—	0/0	0/0	(3)	(2)	0/0	1/1	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	(1)	1/1	(2)	(1)	(3)	0/0	1/1	(1)	1/0	1/1			
Calcium chloride	CaCl ₂	010043-52-4	alkoholic	F, Xi	—	1/0	0/0	4/4	(2)	0/0	1/0	(3)	1/1	0/0	0/0	0/0	4/4	0/0	0/0	1/1	1/0	(1)	(2)	(2)	(2)	0/0	(3)	1/2L	1/2L	1/1		
Calcium chloride	CaCl ₂	010043-52-4	aqueous	Xi	—	1/1	1/1	1/0	1/0	1/1	(3)	1/1	1/1	1/0	1/3	1/0	1/1	1/1	1/1	1/1	1/1	1/0	1/1	0/0	3/3	1/2L	1/2L	1/1				
Calcium hydroxyde	CaH ₂ O ₂	001305-62-0	aqueous	(Xi)	—	1/1	1/1	1/0	4/4	1/0	1/1	1/1	1/1	1/1	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/1	1/0	0/0	3/4	1/1	1/1	0/0			
Calcium hydroxyde	CaH ₂ O ₂	001305-62-0	concentrated	C	—	1/1	1/1	1/0	4/4	1/0	1/1	1/1	1/1	2/2	2/2	1/1	1/0	0/0	1/1	1/1	1/1	1/3	1/0	1/1	1/0	0/0	3/4	1/1	1/1	0/0		
Calcium hypochlorite	Ca(OCl) ₂	007778-54-3	saturated	O, C	—	1/1	1/1	1/4	3/4	3/0	1/2	1/0	1/1	2/3	1/1	2/3	3/0	1/1	1/1	1/1	1/3	(2)	2/3	4/4	0/0	4/4	3/0	2/0	1/1	bleaching powder		
Calcium hypochlorite	Ca(OCl) ₂	007778-54-3	aqueous	O, C/Xi	—	0/0	0/0	4/4	1/0	3/0	0/0	1/0	1/1	1/3	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	2/3	4/4	0/0	4/4	3/0	2/0	1/1	bleaching powder		
Calcium nitrate	Ca(NO ₃) ₂	010124-37-5	50 %	O	—	1/1	1/1	(2)	1/0	(2)	1/1	(3)	1/1	1/1	0/0	1/0	1/0	0/0	1/1	1/1	1/1	1/0	1/0	4/4	0/0	1/0	1/1	1/1	1/1			
Calcium nitrate	Ca(NO ₃) ₂	010124-37-5	aqueous	O	—	1/1	1/1	(2)	(1)	(2)	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/1	0/0	1/0	1/1	1/1	1/1			
Calcium oxide	CaO	001305-78-8	powder	C	—	1/0	1/1	(2)	(2)	(2)	0/0	0/0	1/1	1/1	0/0	1/0	1/0	1/1	1/1	1/1	(1)	1/0	1/0	1/0	0/0	(3)	1/1	1/1				
Calcium phosphate	Ca ₃ (PO ₄) ₂	007758-87-4	aqueous	—	—	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	(1)	1/1	1/1	0/0	small solubility - no chemical effect expected	
Calcium phosphate	Ca ₃ (PO ₄) ₂	007758-87-4	—	—	—	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	(1)	1/1	1/1	0/0	small solubility - no chemical effect expected	
Calcium sulfate	CaSO ₄	007778-18-9	saturated	—	—	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/3	1/1	0/0	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	1/1	1/1	1/1	0/0	plaster	
Calcium sulfide	CaS	020548-54-3	aqueous	C	—	0/0	0/0	(2)	(2)	0/0	0/0	(1)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/0	0/0	1/0	(1)	(1)	0/0			
Calcium sulfide	CaS	020548-54-3	—	C	—	0/0	3/3	(2)	(2)	0/0	(1)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	3/3	0/0	1/0	(1)	(1)	0/0			
Calciumacetat	C ₄ H ₈ CaO ₄	000062-54-4	aqueous	—	—	1/1	1/1	(2)	(1)	(2)	0/0	(1)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	(1)	1/0	4/4	3/3	0/0	(2)	(1)	(1)	0/0		
Camphor	C ₁₀ H ₁₆ O	000464-48-2 / -49-2	—	F, Xn	X</																											

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	thermoplastics														fluoroplastics		elastomers		metals		COMMENT					
						HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	PEP	PTFE	PVDF	EPDM	FPM / FKM	NBR		SI	AL	V2A	V4A	Hastelloy C
Chromic acid	CrO ₃	001333-82-0	50 %	O, T, C, N		3/4	3/4	4/4	3/4	(4)	2/3	4/4	3/3	3/3	4/4	1/3	1/0	3/3	1/1	1/1	1/1	1/1	4/4	1/0	4/4	0/0	(3)	2/3	2/3	1/1	
Chromic potassium sulfate	KCr(SO ₄) ₂ x 12H ₂ O	007788-99-0	saturated	Xn		1/1	0/0	(2)	1/0	(2)	0/0	(3)	1/1	0/0	0/0	1/1	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/0	1/1	0/0	(3)	1/3	1/3	1/1	
Chromic-sulfuric acid	CrO ₃ + H ₂ SO ₄	065272-71-1	concentrated	O, T, C, N		4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	0/0	0/0	4/4	4/4	1/1	0/0	1/1	4/4	4/4	1/0	4/4	4/4	4/4	2/3	2/3	0/0	
Chromium salts	—	—	each	T/Xn		0/0	0/0	0/0	(2)	(2)	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	(1)	(1)	(1)	0/0	K	K	K		
Chromium trioxide	—	—	-> see: Chromic acid																												
Cinnamaldehyde	C ₉ H ₈ O	000104-55-2		Xn, Xi		0/0	0/0	(2)	(3)	0/0	(4)	(2)	(3)	4/4	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	1/0	1/0	4/4	0/0	(1)	(1)	(1)		
Cinnamon	—	—	ground	?		0/0	0/0	(2)	1/0	(2)	0/0	(2)	(2)	3/0	0/0	0/0	0/0	1/1	0/0	(1)	(1)	(1)	(2)	(2)	(2)	0/0	(1)	(1)	(1)		
Cinnamon oil	—	008007-80-5		Xn, Xi		3/4	4/4	(2)	2/3	0/0	4/4	(2)	4/4	4/4	3/3	4/4	0/0	0/0	1/2	1/1	(1)	(2)	(3)	(3)	4/4	0/0	(1)	(1)	(1)		
Citric acid	C ₆ H ₈ O ₇	000077-92-9	10 %	Xi		1/1	1/1	1/1	1/2	1/3	1/1	2/4	1/1	1/2	1/1	1/3	1/0	1/1	1/1	1/1	1/1	1/1	1/0	1/1	1/1	0/0	1/0	1/1	1/1		
Citric acid	C ₆ H ₈ O ₇	000077-92-9	50 %	Xi		1/1	1/1	3/0	1/0	0/0	1/0	2/0	1/1	1/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	(1)	1/1	0/0	1/0	1/3	1/2	1/1	
Citric acid	C ₆ H ₈ O ₇	000077-92-9	saturated	Xi		1/1	1/1	3/0	1/0	0/0	1/0	2/0	1/1	1/1	0/0	1/1	1/1	0/0	0/0	1/1	1/1	1/1	1/0	(1)	1/1	0/0	1/0	1/3	1/2	1/1	
Citrus juices	—	—	aqueous	—		1/1	1/1	1/0	1/0	1/0	0/0	1/0	1/1	0/0	0/0	1/1	1/1	0/0	0/0	1/1	1/1	1/1	(1)	1/0	1/1	0/0	(2)	1/1	1/1		
Cleaning agents	—	—	—	?		1/1	1/1	1/0	1/0	1/0	0/0	1/1	0/0	0/0	1/3	0/0	0/0	0/0	0/0	1/1	1/1	(1)	1/0	1/1	(2)	0/0	1/1	1/1	1/1		
Clophen A60	—	011096-82-5		Xn, N		0/0	0/0	1/0	(3)	0/0	0/0	(2)	4/4	0/0	0/0	4/4	0/0	0/0	0/0	(1)	(2)	4/4	2/3	4/4	0/0	1/0	1/0	1/0	0/0	polychlorinated Biphenyls, PCB; Bayer	
Coal gas, without benzene	—	—		F+, T	X	1/0	1/0	1/0	1/0	(2)	1/0	(2)	1/0	1/0	0/0	1/0	1/0	0/0	(1)	1/0	1/0	4/4	1/0	3/0	0/0	1/1	1/1	1/1	0/0		
Cobalt dichloride	CoCl ₂	007646-79-9	aqueous	Xn		1/1	1/1	(2)	(2)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	1/0	1/0	1/0	0/0	(3)	0/0	0/0			
Cocoa	—	—		(—)		1/1	1/1	(2)	(1)	(2)	0/0	1/1	(2)	1/1	0/0	0/0	0/0	0/0	1/1	1/1	(1)	(1)	(2)	(1)	(2)	0/0	(1)	(1)	(1)		
Cocoa butter	—	008002-31-1		—		0/0	0/0	1/0	(1)	1/0	0/0	1/1	(2)	0/0	0/0	0/0	0/0	0/0	0/0	1/1	(1)	4/4	1/0	4/4	0/0	(1)	1/1	1/1			
Coconut butter	—	—		—		0/0	0/0	1/0	(2)	1/0	0/0	(2)	1/1	0/0	0/0	0/0	1/1	0/0	(1)	1/1	1/1	4/4	1/1	1/0	0/0	(1)	1/1	1/1			
Coconut fatty alcohol	—	068425-37-6	techn. pure	(Xi)		1/0	0/0	(1)	(2)	1/0	0/0	(2)	1/3	0/0	0/0	1/3	0/0	0/0	(1)	1/1	1/1	3/0	1/1	1/1	0/0	(1)	1/1	1/1			
Coconut oil	—	008001-31-8	techn. pure	—		1/3	1/3	1/0	(2)	1/0	0/0	(2)	1/1	0/0	0/0	1/3	0/0	0/0	(1)	1/1	1/1	4/4	1/1	1/1	0/0	(1)	1/1	1/1			
Cod-liver oil	—	008001-69-2		—		1/3	1/3	(2)	1/0	(2)	0/0	(2)	1/3	1/1	0/0	1/0	0/0	1/1	0/0	(1)	1/1	1/1	3/0	1/0	1/0	0/0	(1)	(1)	1/1		
Colza oil	—	008002-13-9		—		0/0	0/0	(2)	(2)	1/0	0/0	(2)	1/3	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/0	1/0	1/3	0/0	(1)	1/1	1/1			
Compressed air	—	—	oleagineus	—		1/0	0/0	(2)	(2)	(1)	0/0	(1)	3/0	0/0	0/0	3/0	0/0	0/0	(1)	1/1	1/1	(3)	(1)	(2)	0/0	1/1	1/1	1/1			
Condy's crystals	—	—	-> see: Potassium permanganate																												
Copper acetate	C ₄ H ₆ CuO ₄	004180-12-5	aqueous	Xn		1/1	1/1	(3)	(2)	(2)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/0	(3)	3/3	0/0	4/4	1/1	1/1	1/1	verdigris	
Copper sulfate	CuSO ₄ x 5H ₂ O	007758-99-8	aqueous	Xn		1/1	1/1	1/0	1/0	(2)	1/0	1/0	1/1	1/1	1/0	1/3	1/0	1/1	1/1	(1)	1/1	1/1	1/0	1/1	2/0	0/0	4/4	1/1	1/1	blue stone	
Cotton oil	—	008001-29-4	techn. pure	?		0/0	0/0	1/0	(2)	(2)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	3/0	1/0	1/0	0/0	(1)	1/1	1/1			
Creosote	—	—		(T)		1/1	1/1	3/0	(3)	0/0	0/0	(3)	3/4	0/0	1/0	3/0	4/4	0/0	(1)	1/1	(3)	4/4	(3)	1/0	0/0	(2)	1/1	1/1	0/0		
Creosote	—	—	-> see: Carbolineum																												
Creol (-mixtures)	C ₇ H ₈ O	001319-77-3		T, C		3/4	4/4	4/4	4/4	4/4	4/4	4/4	2/3	4/4	4/4	4/4	4/4	3/4	1/2	1/1	1/1	1/1	4/4	1/0	4/4	0/0	1/1	1/0	1/0	1/1	
Crotonaldehyde	C ₆ H ₈ O	004170-30-3	techn. pure	F, T	X	1/0	0/0	(2)	(4)	0/0	(4)	(2)	1/0	0/0	0/0	4/4	0/0	0/0	(1)	1/0	1/3	1/0	3/0	4/4	0/0	1/0	1/1	1/1	0/0		
Crude oil	—	—	100 %	(N)		0/0	1/3	1/0	(3)	1/0	0/0	1/0	1/3	3/0	1/0	1/0	3/0	0/0	(1)	1/1	1/1	4/4	1/0	3/3	0/0	(2)	(1)	(1)			
Cumene	C ₉ H ₁₂	000098-82-8		Xi	X	2/3	3/4	(2)	4/4	0/0	4/4	(2)	3/4	4/4	4/4	4/4	0/0	1/2	1/1	(1)	(2)	4/4	1/0	4/4	0/0	1/1	1/1	1/1	0/0		
Cupric chloride	CuCl ₂	007447-39-4	saturated	Xn		1/3	1/1	(3)	1/0	(2)	1/0	(2)	1/3	0/0	0/0	1/1	1/0	0/0	(1)	1/1	1/1	1/0	1/1	1/0	0/0	4/4	4/4	4/4	1/1		
Cupric nitrate	Cu(NO ₃) ₂	003251-23-8	saturated	O, Xn		1/1	1/1	1/0	(2)	(2)	1/0	1/0	1/1	1/0	0/0	1/0	1/0	0/0	(1)	1/1	1/1	1/0	1/1	4/4	0/0	4/4	1/1	1/1	1/1		
Cupric nitrate	Cu(NO ₃) ₂	003251-23-8	aqueous	O, Xn		0/0	0/0	(3)	(2)	0/0	1/0	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/0	1/1	1/0	0/0	4/4	1/1	1/1	1/1			
Cuprous chloride	CuCl	007758-89-6	aqueous	Xn		0/0	0/0	(3)	(2)	(2)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/0	1/1	1/0	0/0	4/4	4/4	4/4	1/1		
Cuprous cyanide	CCuN	000544-92-3	saturated	T		1/1	1/1	(2)	(2)	(2)	0/0	(1)	1/3	0/0	0/0	1/0	1/0	0/0	(1)	1/1	1/1	1/0	1/1	1/0	0/0	(3)	1/1	1/1			
Curry	—	—		?		0/0	0/0	(2)	(2)	(2)	0/0	(1)	(2)	3/3	0/0	0/0	0/0	1/1	0/0	1/1	(1)	(1)	(2)	(2)	0/0	(1)	(1)	(1)	possibility of discoloration		
Cyanoethylene	—	—	-> see: Acrylonitrile																												
Cyanomethane	—	—	-> see: Acetonitrile																												
Cyclanon	—	—		(Xn, Xi)		1/1	1/1	1/0	(2)	(1)	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	(2)	(2)	1/1	0/0	3/4	(1)	(1)	0/0	appliances for dyeing-mill; BASF	
Cyclohexane	C ₆ H ₁₂	000110-82-7		F	X	3/4	3/4	1/0	3/3	1/0	4/4	1/1	3/4	4/4	4/4	2/3	1/0	1/3	1/2	1/1	1/1	1/1	4/4	1/0	1/0	0/0	1/1	1/1	0/0		
Cyclohexanol	C ₆ H ₁₂ O	000108-93-0	techn. pure	Xn		1/1	1/1	1/1	3/0	0/0	1/2	1/0	1/3	3/3	1/0	1/1	4/4	1/3	0/0	(1)	1/1	1/3	4/4	4/4	3/3	0/0	1/1	(1)	0/0		
Cyclohexanone	C ₆ H ₁₀ O	000108-94-1	techn. pure	Xn	X	1/3	3/4	1/0	4/4	(4)	3/4	1/0	2/4	4/4	4/4	4/4	4/4	4/4	0/0	(1)	1/1	1/3	4/4	4/4	4/4	0/0	1/0	(1)	0/0		
Cyclohexatriene	—	—	-> see: Benzene																												
Cymene, p-	C ₁₀ H ₁₄	000099-87-6		F, Xn/Xi	X	0/0	0/0	(2)	4/4	0/0	(4)	(2)	(3)	4/4	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	1/0	4/4	0/0	1/1	1/1	1/1	0/0		
DDT (emulsion)	C ₁₄ H ₉ Cl ₅	000050-29-3		T		0/0	0/0	(2)	(3)	0/0	0/0	(2)	1/1	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	(2)	(3)	(3)	0/0	(2)	(2)	(2)	0/0		
Decahydronaphthalene	C ₁₀ H ₁₈	000091-17-8		Xn		1/3	3/4	1/0	4/4	3/0	4/4	1/0	3/4																		

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	thermoplastics																	fluoroplastics		elastomers		metals		COMMENT			
					FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	PEP	PTFE	PVDF	EPDM	FKM / FKM	NBR	SI	AL		V2A	V4A	Haselloy C
Desiccator fat	—	—	—	—	0/0	1/3	1/0	(2)	(1)	(2)	(1)	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	(3)	(2)	(2)	0/0	(1)	(1)	(1)			
Desmodur 44	C ₁₅ H ₁₀ N ₂ O ₂	000101-68-8	—	Xn	0/0	0/0	0/0	(3)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	(2)	0/0	4/4	0/0	(1)	(1)	(1)			
Developer for fotos	—	—	—	?	1/3	1/1	4/4	(2)	1/0	0/0	1/3	1/2	0/0	1/0	1/3	1/0	0/0	0/0	(1)	1/1	1/1	3/0	1/0	1/0	0/0	1/1	1/0	1/0			
Developer liquids	—	—	—	?	1/1	1/1	4/4	1/0	1/0	0/0	1/0	1/1	0/0	1/0	1/1	1/0	0/0	0/0	0/0	1/1	(1)	2/0	1/0	3/3	0/0	1/1	1/0	1/0	0/0		
Dextrin	(C ₆ H ₁₀ O ₅) _n x H ₂ O	009004-53-9	aqueous	—	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
Diacetone alcohol	C ₈ H ₁₂ O ₂	000123-42-2	—	Xi	X	0/0	0/0	(3)	(3)	0/0	0/0	1/0	2/2	0/0	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	1/0	4/4	4/4	0/0	(2)	(1)	(1)		
Diamine	-> see: Hydrazine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diaminoethane	C ₂ H ₆ N ₂	000107-15-3	techn. pure	C, Xn	X	1/1	1/3	1/0	(3)	0/0	1/0	1/0	1/1	0/0	0/0	3/0	4/4	0/0	0/0	(1)	1/1	1/4	1/0	4/4	3/3	0/0	1/1	(1)	(1)	0/0	
Diammonium sulfide	-> see: Ammonium sulfide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diamyl phthalate	C ₁₈ H ₂₆ O ₄	000131-18-0	100 %	(T)	—	0/0	1/3	(1)	(4)	0/0	0/0	(2)	(2)	4/4	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	3/0	3/0	4/4	0/0	(1)	(1)	(1)	0/0	
Dibenzyl sebacate	C ₂₄ H ₃₈ O ₄	??	—	?	—	0/0	0/0	(2)	(3)	0/0	0/0	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	2/0	(4)	4/4	0/0	(1)	(1)	(1)	plasticiser	
Dibromoethane, 1,2-	-> see: Ethylene dibromiden (EDB)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Dibromotetrafluoroethane	C ₂ Br ₂ F ₄	000124-73-2	—	?	—	0/0	0/0	1/0	(3)	0/0	0/0	1/0	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	0/0	4/4	3/0	3/0	0/0	(3)	0/0	0/0			
Dibutyl phthalate, n-	C ₁₆ H ₂₂ O ₄	000084-74-2	FR, 80°C	T	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(1)	0	0	0	4/4	0	0	0	0	0/0	plasticiser	
Dibutyl phthalate, n-	C ₁₆ H ₂₂ O ₄	000084-74-2	—	T	—	1/3	3/3	1/0	4/4	1/0	0/2	1/0	2/2	4/4	1/0	4/4	4/4	0/4	1/1	(1)	1/1	1/3	3/0	2/3	4/4	0/0	(1)	1/1	1/0	0/0	plasticiser
Dibutyl sebacate	C ₁₈ H ₃₄ O ₄	000109-43-3	techn. pure	—	—	1/0	1/3	1/0	(3)	0/0	0/0	(2)	1/0	4/4	0/0	4/4	4/4	0/0	(1)	1/1	1/0	3/0	4/4	4/4	0/0	(1)	(1)	(1)	0/0	plasticiser	
Dibutylamine	C ₈ H ₁₇ N	000111-92-2	—	Xn	X	0/0	0/0	(2)	(3)	0/0	(3)	(2)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	4/4	4/4	0/0	(1)	(1)	(1)		
Dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂	000079-43-6	50 %	C	—	1/1	1/1	4/4	(4)	4/4	0/0	4/4	1/1	0/0	0/0	1/3	0/0	0/0	(1)	1/1	1/1	4/4	4/4	4/4	0/0	(4)	0/0	0/0	1/1		
Dichloroacetic acid	C ₂ H ₂ Cl ₂ O ₂	000079-43-6	techn. pure	C	—	1/3	3/3	4/4	(4)	4/4	0/0	4/4	1/3	0/0	0/0	1/3	0/0	0/0	(1)	1/1	1/1	4/4	4/4	4/4	0/0	(4)	0/0	0/0	1/1		
Dichlorobenzene, 1,2-	C ₆ H ₄ Cl ₂	000095-50-1	—	Xn	—	3/3	3/4	(1)	4/4	0/0	3/4	(2)	3/4	4/4	4/4	4/4	4/4	1/3	(1)	1/1	1/1	4/4	1/0	4/4	0/0	(1)	0/0	0/0			
Dichlorobenzene, 1,4-	C ₆ H ₄ Cl ₂	000106-46-7	—	Xn	—	2/3	3/4	1/0	4/4	0/0	2/3	(2)	3/4	4/4	4/4	4/4	0/0	0/0	1/3	(1)	1/0	1/1	4/4	1/0	4/4	0/0	(1)	0/0	0/0		
Dichlorodifluoromethane	CCl ₂ F ₂	000075-71-8	techn. pure	N	—	4/4	3/4	1/0	4/4	0/0	1/0	4/4	4/4	1/0	2/0	4/4	3/3	0/0	3/3	1/0	3/4	3/0	3/0	3/3	0/0	(3)	0/0	0/0	0/0		
Dichlorodifluoromethane	CCl ₂ F ₂	000075-71-8	—	N	—	4/4	3/4	1/0	4/4	0/0	1/0	4/4	4/4	1/0	2/0	4/4	3/3	0/0	3/3	1/0	3/4	3/0	3/0	3/3	0/0	(3)	0/0	0/0	0/0		
Dichloroethane	C ₂ H ₄ Cl ₂	—	—	F, T	X	3/3	2/4	3/0	4/4	4/4	1/0	3/4	4/4	4/4	4/4	4/4	4/4	1/1	1/1	1/1	1/1	4/4	3/0	4/4	0/0	1/3	1/1L	1/1L	?	isomer not indicated in the source	
Dichloroethylene	C ₂ H ₂ Cl ₂	—	techn. pure	F+, Xn	X	4/4	4/4	3/0	(4)	4/4	(4)	4/4	3/0	4/4	0/0	4/4	4/4	0/0	(1)	1/0	1/1	4/4	3/4	4/4	0/0	(3)	1/1L	1/1L	?	isomer not indicated in the source	
Dichlorofluoromethane	CHCl ₂ F	000075-43-4	100 %	N	—	0/0	3/0	1/0	3/0	0/0	0/0	1/0	4/4	4/4	3/0	4/4	4/4	3/3	0/0	(3)	1/0	(3)	4/4	4/4	4/4	0/0	(3)	0/0	0/0		
Dichlorohexafluorocyclobutane	C ₄ Cl ₂ F ₆	000356-18-3	—	?	—	0/0	0/0	1/0	(3)	0/0	0/0	1/0	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	0/0	1/0	(3)	1/0	0/0	(3)	0/0	0/0			
Dichloroisopropyl ether	C ₃ H ₇ Cl ₂ O	—	—	(Xn)	—	(4)	(4)	(2)	(3)	0/0	(4)	(3)	(3)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(3)	4/4	4/4	4/4	0/0	(3)	0/0	0/0		isomer not indicated in the source	
Dichloropropane	C ₃ H ₆ Cl ₂	—	100 %	F, T/Xn	X	0/0	0/0	(3)	-4	(4)	(4)	(2)	4/4	4/4	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	4/4	(3)	4/4	0/0	(3)	0/0	0/0	0/0	isomer not indicated in the source
Dichlorotetrafluoroethane	C ₂ Cl ₂ F ₄	000076-14-2	—	?	—	0/0	0/0	1/0	(3)	0/0	0/0	1/0	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	0/0	1/0	3/0	1/0	0/0	(3)	0/0	0/0			
Dicyclohexyl phthalate	C ₂₆ H ₃₆ O ₄	000084-61-7	techn. pure	(Xn)	—	0/0	0/0	(1)	(3)	0/0	0/0	(2)	1/3	0/0	0/0	0/0	0/0	0/0	(1)	(1)	0/0	(3)	4/4	4/4	0/0	(1)	(1)	(1)	plasticiser		
Dicyclohexylamine (DCHA)	C ₁₂ H ₂₃ N	000101-83-7	—	C, Xn	—	0/0	0/0	(2)	(3)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	4/4	4/4	0/0	(1)	(1)	(1)			
Diesel fuel	—	—	—	Xn, N	—	1/3	0/0	1/1	3/3	1/1	0/0	1/1	1/3	0/0	1/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/1	0/0	1/1	(1)	(1)	0/0		
Diesel fuel for heating	—	—	—	Xn	—	3/3	3/4	1/0	3/3	1/0	2/3	1/1	1/3	3/4	1/2	1/1	3/3	1/1	1/1	1/1	1/1	4/4	1/1	1/1	0/0	1/1	1/1	1/1			
Diesel oil	—	068334-30-5	100 %	(Xn)	—	1/3	1/4	1/1	3/3	1/1	0/0	1/1	1/3	3/4	0/0	1/3	3/3	1/1	0/0	(1)	1/1	1/1	4/4	1/1	1/1	0/0	1/1	(1)	(1)	0/0	
Diethanolamine (DEA)	C ₄ H ₁₁ NO ₂	000111-42-2	100 %	Xi	—	0/0	1/0	(2)	(3)	0/0	0/0	(2)	1/2	1/0	0/0	0/0	0/0	1/1	0/0	(1)	1/0	1/3	3/0	(3)	4/4	0/0	1/1	(1)	0/0		
Diethyl ethyl	C ₈ H ₁₈ O	000060-29-7	techn. pure	F+, Xn	X	3/4	4/4	1/1	4/4	1/0	4/4	1/2	4/4	4/4	4/4	4/4	1/2	1/1	1/1	1/4	4/4	4/4	4/4	0/0	1/1	1/1	1/1	1/1	0/0		
Diethyl ketone	-> see: Pentanone, 3-	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diethyl malonate	C ₇ H ₁₂ O ₄	000105-53-3	—	Xi	—	1/1	1/1	(2)	3/4	0/0	1/2	(2)	1/1	4/4	3/3	2/4	0/0	0/0	1/1	1/1	(1)	(3)	(2)	(4)	(3)	0/0	(1)	(1)			
Diethyl sebacate	C ₁₄ H ₂₆ O ₄	000110-40-7	—	Xi	—	0/0	0/0	(2)	(3)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	2/0	3/0	4/4	0/0	(1)	(1)	(1)	plasticiser		
Diethyl succinate	C ₈ H ₁₄ O ₄	000123-25-1	—	—	—	0/0	0/0	(2)	(4)	0/0	0/0	(3)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	(2)	4/4	4/4	0/0	(1)	(1)	(1)			
Diethylamine	C ₄ H ₁₁ N	000109-89-7	techn. pure	F, C, Xn	X	0/0	0/0	(2)	(3)	0/0	0/0	(2)	1/2	0/0	0/0	3/0	0/0	0/0	(1)	1/0	1/4	2/0	4/4	4/4	0/0	(1)	1/1	1/1	0/0		
Diethylbenzene</																															

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	thermoplastics																	fluoroplastics		elastomers		metals		COMMENT					
						HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	PEP	PTFE	PVDF	EPDM	FKM / FKM	NBR	SI	AL	V2A		V4A	Haselloy C			
Dimethyl ether	C ₂ H ₆ O	000115-10-6	gas	F+	X	0/0	3/0	1/0	(3)	1/0	0/0	(2)	4/4	4/4	0/0	3/0	4/4	0/0	0/0	0/0	0/0	1/0	(3)	3/0	4/4	4/4	0/0	1/1	(1)	(1)	0/0			
Dimethyl formamide (DMF)	C ₂ H ₇ NO	000068-12-2		T, F	X	1/1	1/3	1/0	4/4	1/0	1/1	1/2	1/1	4/4	4/4	3/4	0/0	4/4	2/2	1/1	1/1	4/4	2/0	4/4	4/4	0/0	(1)	1/1	1/1	1/1				
Dimethyl ketone	-> see: Acetone																																	
Dimethyl phthalate (DMP)	C ₁₀ H ₁₀ O ₄	000131-11-3	100 %	(Xn)		4/4	1/3	(2)	4/4	0/0	0/0	(2)	2/3	4/4	0/0	4/4	4/4	4/4	0/0	(1)	1/1	(2)	3/0	2/0	4/4	0/0	(1)	(1)	(1)	0/0	plasticiser			
Dimethyl sulfoxide (DMSO)	C ₂ H ₆ SO	000067-68-5		Xi		1/1	1/1	(2)	4/4	0/0	1/1	1/0	1/1	1/2	4/4	4/4	0/0	0/0	1/2	1/1	(1)	(3)	(3)	(3)	(4)	0/0	(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	1/0	4/4	0/0	0/0	(2)	1/3	0/0	0/0	3/4	4/4	0/0	0/0	(1)	1/1	3/0	3/0	4/4	4/4	0/0	(1)	(1)	(1)	1/1				
Dimethylaniline	C ₈ H ₉ N	—		T		0/0	0/0	(3)	4/4	0/0	0/0	(2)	4/4	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	3/0	4/4	4/4	0/0	(1)	(1)	(1)	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	(3)	(3)	0/0	0/0	(2)	(2)	0/0	0/0	4/4	4/4	0/0	0/0	(1)	(1)	(3)	1/0	1/0	4/4	0/0	0/0	(1)	(1)	0/0				
Dinonyl phthalate (DNP)	C ₂₈ H ₄₂ O ₄	000084-76-4	techn. pure	Xn		3/0	0/0	(2)	3/0	0/0	0/0	(2)	1/3	0/0	0/0	4/4	0/0	0/0	0/0	(1)	1/0	(2)	(3)	4/4	4/4	0/0	(1)	(1)	(1)		plasticiser			
Diocetyl adipate	C ₂₂ H ₄₂ O ₄	000103-23-1		?		0/0	0/0	(2)	(3)	0/0	0/0	(2)	4/4	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(2)	(3)	(3)	4/4	0/0	(1)	(1)	(1)		plasticiser			
Diocetyl phthalate (DOP)	C ₂₄ H ₃₈ O ₄	000117-81-7	techn. pure	Xn		4/4	4/4	1/0	4/4	1/0	1/0	(2)	4/4	4/4	1/0	4/4	4/4	0/0	0/0	1/1	1/0	(2)	3/0	2/3	4/4	0/0	(1)	(1)	(1)		plasticiser			
Diocetyl sebacate	C ₂₆ H ₅₀ O ₄	002432-87-3		—		0/0	0/0	(2)	(3)	0/0	0/0	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	2/0	3/0	4/4	0/0	(1)	(1)	(1)		plasticiser			
Dioxane	C ₈ H ₁₆ O ₂	000123-91-1		F, Xn	X	2/2	2/3	1/0	4/4	1/0	2/3	1/2	3/3	4/4	2/3	3/4	4/4	4/4	1/3	1/1	1/1	3/3	2/0	4/4	4/4	0/0	1/1	1/0	1/0	0/0				
Diphenyl ether	C ₁₂ H ₁₀ O	000101-84-8		Xn/Xi		0/0	1/0	3/0	(3)	(4)	0/0	1/1	4/4	4/4	0/0	0/0	4/4	4/4	0/0	(1)	1/0	(2)	4/4	3/0	4/4	0/0	(1)	(1)	(1)	0/0				
Diphenylamine	C ₁₂ H ₁₁ N	000122-39-4		T		0/0	0/0	0/0	(3)	0/0	0/0	(2)	(3)	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	(3)	(3)	(4)	0/0	(1)	(1)	(1)	(1)	0/0				
Diphenyl	—	008004-13-5		?		0/0	0/0	1/1	(3)	4/4	0/0	1/1	4/4	4/4	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	3/0	4/4	0/0	(1)	(1)	(1)		mixture with diphenyl and diphenyl ether; Bayer			
Dipropyl ketone	C ₉ H ₁₈ O	000123-19-3		—	X	0/0	0/0	(3)	(4)	(4)	(4)	1/0	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	(3)	(4)	4/4	0/0	(1)	(1)	(1)					
Dipropylene glycol	C ₈ H ₁₆ O ₃	025265-71-8		Xi		1/1	1/1	(2)	2/3	0/0	1/1	1/0	1/1	1/1	2/2	2/3	0/0	0/0	1/1	1/1	(1)	(2)	4/4	3/0	3/3	0/0	(1)	(1)	(1)					
Dipropylene glycol (mono)methyl ether	C ₈ H ₁₆ O ₂	—		—	X	0/0	0/0	(3)	(3)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	(3)	(3)	4/4	0/0	(1)	(1)	(1)	0/0	isomer not indicated in the source				
Disodium phosphate	Na ₂ HPO ₄	007558-79-4		(Xi)		1/1	1/1	1/0	(2)	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/0	(1)	0/0	(1)	1/1	1/1	0/0				
Dispersion of rubber	—	—		?		0/0	0/0	1/0	(2)	(2)	0/0	2/3	1/1	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	(3)	(1)	(2)	0/0	(3)	(1)	(1)		latex			
Dithionous acid, disodium salt	-> see: Sodium hydrosulfite																																	
Divinylene oxide	-> see: Furan																																	
Dope, viscous ~	—	—		(Xn, Xi)		1/1	1/1	4/4	(3)	0/0	0/0		1/1	0/0	0/0	1/1	1/1	0/0	0/0	(1)	1/1	1/1	(3)	(2)	4/4	0/0	(3)	3/4	2/4	0/0				
Emulsifiers	—	—		?		0/0	0/0	(2)	0/0	0/0	0/0	0/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	(2)	(2)	(3)	0/0	0/0	K	K					
Emulsions for fotos	—	—		?		1/0	0/0	1/0	(2)	(2)	0/0	1/0	1/1	0/0	0/0	1/0	0/0	0/0	0/0	(1)	1/1	1/1	(2)	(2)	(1)	0/0	(2)	0/0	0/0					
Ephetin	—	—	10% in water	?		0/0	0/0	0/0	0/0	0/0	0/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0				
Epichlorhydrin	C ₃ H ₅ ClO	000106-89-8	100 %	F, T	X	1/0	1/0	4/4	(4)	0/0	(4)	1/0	2/2	0/0	0/0	4/4	4/4	0/0	0/0	(1)	1/0	(3)	3/0	4/4	4/4	0/0	(3)	0/0	0/0	0/0				
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	(2)	(4)	0/0	(3)	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	4/4	4/4	0/0	(1)	(1)	(1)		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	1/0	4/4	4/4	4/4	1/1	1/3	4/4	4/4	4/4	4/4	4/4	1/2	1/1	1/1	3/3	3/0	4/4	4/4	0/0	1/1	(1)	(1)	1/0				
Ethyl acrylate	C ₈ H ₁₀ O ₂	000140-88-5	100 %	F, Xn	X	4/4	4/4	1/0	(4)	(4)	(4)	(2)	4/4	0/0	0/0	4/4	4/4	0/0	0/0	1/1	1/0	3/0	4/4	4/4	4/4	0/0	(1)	(1)	(1)	1/0				
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	40 %	—	X	1/1	1/2	1/0	1/2	1/1	1/2	1/2	1/1	2/3	1/2	1/1	0/0	1/1	1/1	1/1	1/1	1/1	1/0	1/0	1/1	0/0	1/1	1/1	1/1	1/1				
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	50 %	—	X	1/1	1/1	1/0	1/1	1/1	1/0	1/2	1/1	1/0	1/0	1/0	3/0	0/0	0/0	1/1	1/1	1/1	1/0	(2)	1/1	0/0	1/1	1/1	1/1	1/1				
Ethyl alcohol	C ₂ H ₆ O	000064-17-5	96 %	F	X	1/0	1/3	1/0	1/3	1/1	1/2	1/1	3/4	1/2	1/3	3/0	1/3	1/1	1/1	1/1	1/1	1/0	3/0	3/3	0/0	1/1	1/1	1/1	1/1	1/1				
Ethyl aldehyde	-> see: Acetaldehyde																																	
Ethyl benzoate	C ₉ H ₁₀ O ₂	000093-89-0		Xn		2/2	3/3	(2)	4/4	0/0	2/3	(2)	2/3	4/4	4/4	4/4	0/0	4/4	1/2	1/1	1/0	(3)	(3)	(3)	4/4	0/0	(1)	(1)	(1)					
Ethyl butyrate	C ₈ H ₁₆ O ₂	000105-54-4		F	X	2/3	2/4	(2)	4/4	0/0	3/4	(2)	2/4	4/4	4/4	4/4	0/0	0/0	1/2	1/1	(1)	(2)	(3)	(4)	4/4	0/0	(1)	(1)	(1)					
Ethyl chloride	-> see: Monochloroethane																																	
Ethyl chloroacetate	C ₄ H ₇ ClO ₂	000105-39-5	techn. pure	T/Xi		1/1	1/1	(3)	4/4	(4)	(4)	(3)	1/1	4/4	0/0	3/4	3/4	0/0	0/0	(1)	1/1	1/4	3/0	4/4	4/4	0/0	3/4	0/0	0/0	0/0				
Ethyl cyanoacetate	C ₅ H ₇ NO ₂	000105-56-6		Xn/Xi		1/1	1/1	0/0	3/4	0/0	1/1	(2)	1/1	2/4	3/3	3/4	0/0	0/0	1/1	1/1	(1)	(3)	(2)	(3)	(3)	0/0	(2)	(1)	(1)	0/0				
Ethyl formate	C ₅ H ₁₀ O ₂	000109-94-4		F	X	0/0	0/0	0/0	(4)	0/0	(4)	(2)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(3)	(3)	(4)	4/4	0/0	(1)	(1)	(1)					
Ethyl lactate	C ₅ H ₁₀ O ₃	000097-64-3		—	X	1/1	1/1	(2)	3/4	0/0	1/1	(2)	1/1	3/4	3/3	3/4	0/0	0/0	1/1	1/1	(1)	3/0	(3)	(3)	(3)	0/0	(1)	(1)	(1)					

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	thermoplastics														fluoroelastomers		elastomers		metals		COMMENT																			
						HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	PEP	PTFE	PVDF	EPDM	FPM / FKM	NBR		SI	AL	V2A	V4A															
Ethylene dibromiden (EDB)	C ₂ H ₄ Br ₂	000106-93-4		T		(4)	(4)	(2)	(4)	(4)	(4)	(2)	4/4	4/4	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	1/2	4/4	(3)	4/4	0/0	(3)	1/0L	1/0L	0/0	Dibromoethane, 1,2-;													
Ethylene glycol	C ₂ H ₄ O ₂	000107-21-1		Xn		1/1	1/1	3/3	2/3	1/0	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/0	1/2	1/1	0/0	1/1	1/1	1/1	1/1															
Ethylene glycol monobutyl ether	C ₈ H ₁₆ O ₂	000111-76-2	100 %	Xn	X	0/0	1/0	1/0	(2)	1/0	0/0	1/0	1/0	0/0	0/0	4/4	4/4	0/0	0/0	1/1	1/0	1/1	3/0	3/4	3/4	0/0	1/1	(1)	(1)	0/0															
Ethylene glycol monoethyl ether	C ₄ H ₁₀ O ₂	000110-80-5	100 %	T	X	0/0	4/4	(3)	(2)	0/0	0/0	1/0	2/4	4/4	1/0	4/4	4/4	4/4	0/0	1/1	1/0	1/1	3/0	4/4	4/4	0/0	(1)	(1)	(1)	0/0															
Ethylene glycol monoethyl ether acetate	C ₈ H ₁₆ O ₃	000115-15-9		Xn	X	1/1	1/2	0/0	3/4	0/0	1/2	(2)	1/2	4/4	4/4	3/4	0/0	0/0	1/2	1/1	(1)	(2)	2/0	4/4	4/4	0/0	(1)	(1)	(1)																
Ethylene glycol monomethyl ether	C ₃ H ₆ O ₂	000109-86-4	100 %	T	X	1/0	1/1	1/0	3/4	0/0	1/1	1/0	1/1	4/4	3/3	3/4	4/4	0/0	1/1	1/1	1/1	1/1	3/0	4/4	4/4	0/0	(1)	(1)	(1)	0/0															
Ethylene glycol monomethyl ether oleate	C ₂₂ H ₄₀ O ₃	000111-10-4		?		1/1	1/2	(2)	3/4	(2)	1/2	(2)	1/2	4/4	4/4	4/4	0/0	0/0	1/1	1/1	(1)	1/1	(1)	4/4	(2)	4/4	0/0	(1)	(1)	(1)	Kapsolat; Methoxyethyl oleate; Methyl cellosolveat oleate; plasticiser														
Ethylene oxide	C ₂ H ₄ O	000075-21-8		F+, T	X	2/3	3/3	3/0	3/4	1/0	3/4	1/0	3/3	4/4	1/1	3/4	0/0	0/0	1/1	1/1	(1)	1/1	4/4	4/4	4/4	0/0	1/1	(1)	(1)	0/0															
Ethylenediaminetetraacetic acid (EDTA)	C ₁₀ H ₁₆ N ₂ O ₈	000060-00-4		Xi		1/1	1/1	(2)	(2)	(2)	0/0	1/0	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	(1)	(1)	(2)	(1)	0/0	(3)	0/0	0/0	0/0															
Ethylhexanol-1	C ₈ H ₁₈ O	000104-76-7		Xn/Xi		0/0	1/3	(2)	(2)	(1)	1/0	1/0	1/0	3/0	0/0	1/0	4/4	0/0	0/0	(1)	1/1	(1)	1/0	1/0	1/0	0/0	(1)	(1)	(1)	1/1															
Ethyne	-> see: Acetylene																																												
Eucalyptus oil		008000-48-8		?		0/0	0/0	(2)	(3)	0/0	0/0	(2)	(2)	4/4	0/0	0/0	0/0	3/3	0/0	(1)	(1)	(2)	4/4	(3)	(4)	0/0	(1)	(1)	(1)																
Exhaust gases, alkaline				?		1/1	0/0	(2)	0/0	0/0	0/0	(1)	1/1	0/0	0/0	1/1	0/0	0/0	0/0	0/0	1/1	1/4	1/0	1/0	1/0	0/0	(2)	(1)	(1)																
Exhaust gases, containing carbon dioxide			small	?		1/1	0/0	(1)	(1)	(1)	(1)	(1)	1/1	(1)	(1)	1/1	(1)	1/1	1/1	1/1	1/1	1/0	1/0	(1)	(1)	(1)	(1)	(1)	(1)	0/0															
Exhaust gases, containing hydrochloric acid			each	?		1/1	0/0	(3)	0/0	0/0	0/0	(4)	1/1	0/0	0/0	1/1	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/0	3/0	0/0	(4)	2/2L	2/2L	3/3															
Exhaust gases, containing hydrogen fluoride			small	?		1/1	0/0	(3)	0/0	0/0	(4)	1/1	0/0	0/0	1/1	0/0	0/0	(2)	1/1	1/1	1/1	1/0	1/0	1/0	0/0	(4)	(2)	(2)	1/1																
Exhaust gases, containing nitrose			small	?		1/1	0/0	(3)	0/0	0/0	0/0	(4)	1/3	0/0	0/0	1/1	0/0	0/0	(2)	1/1	1/1	1/1	1/0	1/0	(3)	0/0	(2)	(1)	(1)																
Exhaust gases, containing sulfur dioxide			small	?		1/1	0/0	(2)	0/0	0/0	(4)	1/1	0/0	0/0	1/1	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	3/0	0/0	(4)	1/1	1/1	0/0																
Exhaust gases, containing sulfur trioxide			small	?		1/1	0/0	(4)	0/0	0/0	(4)	4/4	0/0	0/0	1/1	0/0	0/0	(2)	(2)	1/1	1/1	1/0	1/0	4/4	0/0	(4)	(2)	(1)	0/0																
Exhaust gases, containing sulfuric acid			each	?		1/1	0/0	(4)	0/0	0/0	(4)	1/3	0/0	0/0	1/1	0/0	0/0	(2)	1/1	1/1	1/1	1/0	1/0	4/4	0/0	(4)	(2)	(1)	0/0																
Fat, animal						0/0	0/0	1/0	(2)	1/0	0/0	1/1	1/3	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/0	0/0	(1)	1/1	1/1																
Fat, mineral				(-)		0/0	0/0	1/0	(2)	(1)	0/0	1/1	1/3	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	(4)	(1)	1/0	0/0	(1)	1/1	1/1																
Fat, vegetable						0/0	0/0	1/0	(2)	1/0	0/0	1/1	1/3	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/0	0/0	(1)	1/1	1/1																
Fats, edible oil						0/0	1/0	1/0	1/0	1/0	1/0	1/1	3/0	0/0	1/0	1/0	3/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/1	0/0	(1)	1/1	1/1	1/1															
Fatty alcohol sulfonates			aqueous	(Xn, Xi)		1/1	0/0	1/0	(2)	1/0	0/0	1/1	1/3	0/0	0/0	1/3	0/0	0/0	0/0	(1)	1/1	1/1	(2)	(2)	1/1	0/0	3/4	1/0	1/0	0/0	detergents														
Ferric chloride	FeCl ₃	007705-08-0	saturated	Xn		1/1	1/1	3/0	1/0	0/0	1/0	4/4	1/1	1/1	1/0	1/1	1/0	1/1	1/1	1/1	1/1	1/1	(1)	1/1	1/1	0/0	4/4	4/4	4/4	1/1															
Ferric nitrate	Fe(NO ₃) ₃	010421-48-4	aqueous	(O, Xn)		1/1	1/1	(2)	(2)	0/0	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	(1)	1/0	0/0	4/4	1/1	1/1	1/1																
Ferric nitrate	Fe(NO ₃) ₃	010421-48-4	aqueous	O, Xn		1/1	1/1	1/0	0/0	1/0	(3)	1/1	1/1	0/0	1/1	1/0	1/1	1/1	1/1	1/1	1/1	(1)	1/0	0/0	4/4	1/1	1/1	1/1																	
Ferric sulfate	Fe ₂ (SO ₄) ₃	010028-22-5	saturated	Xi		1/1	1/1	(2)	(2)	0/0	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	(1)	(1)	(1)	0/0	4/4	1/1	1/1	1/1															
Ferrous chloride	FeCl ₂	007758-94-3	saturated	Xn		1/1	1/1	3/0	1/0	(2)	1/0	(3)	1/1	1/1	1/0	1/1	1/0	1/1	1/1	1/1	1/1	1/1	(1)	1/1	(1)	0/0	4/4	(2)	1/1	1/1															
Ferrous sulfate	FeSO ₄	007720-78-7	saturated	(Xn)		1/1	1/1	(2)	1/0	0/0	(3)	1/1	1/0	0/0	1/1	1/0	0/0	1/1	1/1	1/1	1/1	(1)	(1)	(1)	0/0	4/4	1/1	1/1	1/1																
Ferrous sulfate	FeSO ₄	007720-78-7	aqueous	(Xn)		1/1	1/1	(2)	(2)	0/0	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	(1)	(1)	1/0	0/0	4/4	1/1	1/1	1/1															
Ferrous sulfate	FeSO ₄	007720-78-7		Xn		1/1	1/1	(2)	1/0	(2)	0/0	(3)	1/1	1/1	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	(1)	1/0	(1)	0/0	4/4	1/1	1/1	1/1															
Fire-damp				F+	X	0/0	0/0	1/0	(2)	(1)	0/0	(1)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	4/4	1/0	1/0	0/0	1/1	(1)	(1)		mainly methane															
Fixer for fotos				?		1/0	1/1	1/0	(2)	0/0	0/0	1/0	1/1	0/0	0/0	1/3	1/0	0/0	0/0	(1)	1/1	1/1	1/0	1/0	0/0	(2)	1/0	1/0																	
Fluid 101, 100°C				?		0	0	0	0	0	0	(3)	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	Brake fluid, based on polyglycoles														
Fluorides				T		1/1	1/1	(2)	1/1	(2)	1/1	(1)	1/1	2/2	1/1	0/0	0/0	1/1	1/1	(1)	(1)	(2)	(2)	(1)	0/0	0/0	K	K																	
Fluorine	F ₂	007782-41-4		O, T+, C+		4/4	4/4	4/4	4/4	4/4	3/4	4/4	4/4	4/4	1/2	0/0	4/4	1/1	1/1	1/1	1/1	4/4	4/4	3/0	4/4	0/0	4/4	(4)	(4)	0/0															
Fluorobenzene	C ₆ H ₅ F	000462-06-6		F, (Xn)	X	0/0	0/0	(2)	(4)	0/0	(4)	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(2)	4/4	3/0	4/4	0/0	(1)	0/0	0/0																
Fluorocarbons				?		0/0	0/4	(2)	(3)	(2)	0/0	(3)	4/4	0/0	0/0	0/0	0/4	1/1	0/0	0/1	(3)	(3)	(3)	(3)	0/0	(1)	0/0	0/0		resistance depends on type															
Formaldehyde solution	CH ₂ O	000050-00-0	10 %	Xn		1/1	1/1	3/3	1/2	1/0	1/2	1/2	1/1	3/4	2/3	2/3	3/3	1/3	1/1	1/1	1/1	1/1	1/0	3/0	(2)	0/0	1/1	1/1	1/1	1/1															
Formaldehyde solution	CH ₂ O	000050-00-0	30 %	T		1/1	1/1	3/3	1/2	1/0	0/0	1/2	1/1	4/4	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	3/0	1/0	0/0	1/1	1/1	1/1	1/1																
Formaldehyde solution	CH ₂ O	000050-00-0	40 %	T		1/2	2/3	1/3	1/2	1/0	1/2	1/2	1/2	4/4	2/3	2/3	3/3	0/4	1/1	1/1	1/1	1/1	1/0	3/0	(3)	0/0	1/1	1/1	1/1																
Formamide	CH ₃ NO	000075-12-7	techn.																																										

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	thermoplastics													fluoroplastics		elastomers		metals		Haselloy C	COMMENT						
					FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETEF	FEP	PTFE	PVDF	EPDM			FKM / FKM	NBR	SI	AL	V2A	V4A
Gas oil	—	—	—	(Xn)	0/0	0/0	(1)	(2)	1/0	0/0	(2)	1/3	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/0	0/0	1/1	(1)	(1)			
Gas, natural	—	—	—	F+	X	0/0	0/0	0/1	0/0	1/0	0/0	1/0	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	4/4	1/0	1/0	0/0	1/1	(1)	(1)		mainly methane	
Gasoline	—	008006-61-9	—	(F, Xn)	X	0/0	0/0	(1)	3/4	(2)	0/0	1/2	3/4	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	3/0	0/0	1/1	(1)	(1)			
Gasoline	C ₈ H ₁₂ · C ₁₂ H ₂₆	086290-81-5	—	F, Xn, N	X	2/3	3/4	1/0	3/3	(2)	2/3	1/2	3/4	4/4	3/3	2/4	0/0	0/4	1/1	1/1	1/1	4/4	(1-3)	3/0	0/0	1/1	1/1	1/1		1/1	fuel, lead-free
Gearbox oil, EP (Hypoid), 110°C	—	—	—	?		0	0	1	1	1	0	4	(3)	0	0	0	0	0	0	(2)	0	4/4	0	4/4	0	(1)	1	1	0/0		
Gelatin	—	009000-70-8	each	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/0	1/0	0/0	1/1	1/1	1/1	1/1	1/1	1/1	0/0	1/1	1/1	1/1	0/0		
Genantin	—	—	—	Xn		0/0	0/0	3/3	(2)	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/0	1/2	1/1	0/0	1/1	1/1	1/1		antifreeze agent , based on glycol; Clariant	
Ginger	—	—	ground	?		0/0	0/0	(2)	(2)	(2)	0/0	(1)	(2)	4/4	0/0	0/0	0/0	3/3	0/0	(1)	(1)	(1)	(2)	(1)	(2)	0/0	(1)	(1)	(1)		
Glucose	C ₆ H ₁₂ O ₆	000050-99-7	each	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
Glue (bone glue)	—	—	each	—		1/0	1/1	(1)	(1)	1/1	0/0	(2)	1/1	0/0	0/0	1/3	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	0/0	(3)	1/1	1/1	0/0		
Glycerol	C ₃ H ₈ O ₃	000056-81-5	each	Xi		1/1	1/1	1/0	3/3	1/0	1/1	1/0	1/1	1/1	1/1	1/1	2/3	1/1	1/1	1/1	1/1	1/1	1/0	1/1	1/0	0/0	1/1	1/1	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	1/1	1/1	(1)	0/0	1/1	0/0	0/0	1/3	1/3	0/0	1/1	1/1	1/1	1/1	1/1	1/0	3/3	0/0	(2)	(2)	0/0	Glyccol; Aminoacetic acid		
Glycolic acid	C ₂ H ₄ O ₃	000079-14-1	37 %	Xn		1/1	0/0	4/4	(2)	0/0	(3)	1/1	0/0	0/0	(3)	1/1	0/0	0/0	0/0	0/0	1/1	1/3	1/0	2/0	1/0	0/0	1/3	1/3	1/1		
Glycolic acid	C ₂ H ₄ O ₃	000079-14-1	70 %	C, Xn		1/1	1/1	4/4	(2)	0/0	(3)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(2)	1/0	3/0	(2)	0/0	(2)	1/3	1/3	1/1		
Glysantin	—	—	—	Xn		1/1	1/1	3/3	(2)	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/0	1/2	1/1	0/0	1/1	1/1	1/1		antifreeze agent , based on glycol; BASF
Gum tragacanth	—	009000-65-1	—	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
HD-Oil motor oil, without aromatics	—	—	—	?		1/0	1/3	1/0	1/1	1/1	0/0	1/1	1/3	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(2)	4/4	(1)	3/3	0/0	1/1	1/1	1/1		
Helium	He	007440-59-7	—	—		0/0	0/0	1/0	(1)	1/1	0/0	1/1	1/0	0/0	0/0	0/0	0/0	0/0	1/1	(1)	1/1	(1)	1/0	1/0	1/0	0/0	1/1	1/1	1/1		
Henkel-P3-solution	—	—	—	?		1/1	1/1	(2)	(2)	(1)	0/0	(1)	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	(2)	(2)	1/0	0/0	0/0	1/1	1/1		cleaner	
Heptane, normal	C ₇ H ₁₆	000142-82-5	—	F, Xn	X	2/3	3/4	1/0	1/2	1/0	3/3	1/2	2/4	4/4	1/2	2/3	4/4	1/0	1/1	1/1	1/1	1/1	4/4	1/1	1/1	0/0	1/1	1/1	1/1	0/0	
Heptanol, 1-	C ₇ H ₁₆ O	000111-70-6	—	Xn		0/0	0/0	(2)	(2)	(1)	0/0	(1)	(2)	0/0	0/0	0/0	1/3	0/0	(1)	(1)	4/4	(1)	1/0	0/0	(1)	(1)	(1)	(1)			
Heptanone	C ₇ H ₁₄ O	—	—	(Xn)	X	0/0	0/0	(3)	(4)	(4)	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	(4)	(4)	4/4	0/0	(1)	(1)	(1)		isomer not indicated in the source	
Hexachlorbenzene (HCB)	C ₆ Cl ₆	000118-74-1	—	T		0/0	0/0	(3)	(4)	0/0	(4)	1/0	(3)	0/0	0/0	0/0	0/0	1/1	0/0	(1)	(2)	0/0	4/4	(3)	4/4	0/0	(1)	0/0	0/0		
Hexachlorcyclohexane (alpha-BHC)	C ₆ HCl ₆	000319-84-6	—	T		0/0	0/0	(3)	(4)	0/0	(3)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(2)	0/0	4/4	1/0	4/4	0/0	(3)	0/0	0/0			
Hexahydropyridine	-> see: Piperidine																														
Hexaldehyde, n-	C ₆ H ₁₂ O	000066-25-1	—	F, Xi	X	0/0	0/0	0/0	(4)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	3/0	4/4	4/4	0/0	(1)	(1)	(1)			
Hexamethylenetetramine	C ₆ H ₁₂ N ₄	000100-97-0	—	F, Xn	X	0/0	0/0	(2)	(2)	1/0	0/0	(2)	(2)	1/1	0/0	0/0	0/0	1/1	0/0	(1)	(1)	(2)	(2)	(2)	(3)	0/0	(1)	1/1	1/1	0/0	Methenamine; Hexamine; Urotropin
Hexane, n-	C ₆ H ₁₄	000110-54-3	—	F, Xn	X	2/3	4/4	1/0	(2)	1/0	3/4	1/1	2/3	4/4	1/2	2/4	4/4	1/1	1/1	1/1	1/1	4/4	1/1	1/1	0/0	1/1	1/1	1/1	0/0		
Hexanedioic acid	-> see: Adipic acid																														
Hexanetriol	C ₆ H ₁₄ O ₃	—	100 %	?		1/1	1/1	(2)	(2)	(1)	0/0	(1)	1/1	1/0	0/0	1/1	3/3	1/1	0/0	(1)	1/1	(1)	1/0	1/0	1/0	0/0	(1)	(1)	0/0	isomer not indicated in the source	
Hexene, 1-	C ₆ H ₁₂	000592-41-6	—	F, Xn	X	0/0	0/0	1/0	(2)	(1)	(4)	(1)	(3)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	4/4	1/0	3/3	0/0	1/1	1/1	1/1		Butyl ethylene; Hexylene	
Hexyl alcohol	C ₆ H ₁₄ O	000111-27-3	—	Xn		1/0	1/0	(2)	(2)	(1)	0/0	(1)	1/2	0/0	3/0	1/0	3/0	1/3	0/0	(1)	1/0	(1)	4/4	1/0	1/0	0/0	(1)	(1)	(1)	0/0	
Honey	—	—	—	—		1/1	1/1	1/1	1/1	1/1	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	1/1	0/0	(1)	(1)	(1)	0/0		
Hydraulic fluids, HFA	—	—	50°C	?		0	0	0	0	0	0	0	(3)	0	0	0	0	0	0	(1)	0	4	0	1	0	(2)	0	0			
Hydraulic fluids, HFB	—	—	50°C	?		0	0	0	0	0	0	0	(3)	0	0	0	0	0	0	(1)	0	4	0	1	0	(2)	0	0			
Hydraulic fluids, HFC	—	—	60°C	?		0	0	0	0	0	0	0	(3)	0	0	0	0	0	0	(1)	0	0	0	1	0	(2)	0	0			
Hydraulic fluids, HFD-R	—	—	100°C	?		0	0	0	0	0	0	0	(3)	0	0	0	0	0	0	0	0	0	0	4	0	(2)	0	0			
Hydraulic fluids, HFD-S	—	—	100°C	?		0	0	0	0	0	0	0	(3)	0	0	0	0	0	0	0	0	0	0	4	0	(2)	0	0			
Hydraulic oil (based on mineral oil)	—	—	—	?		0/0	0/0	0/0	0/0	(1)	0/0	1/0	1/3	0/0	0/0	0/0	0/0	0/0	(1)	(1)	0/0	4/4	(1)	1/0	0/0	1/1	1/1	1/1			
Hydrazine	N ₂ H ₄	000302-01-2	10 %	T	X	1/1	1/0	4/4	(4)	0/0	0/0	2/0	1/1	0/0	0/0	1/0	0/0	0/0	1/0	1/0	1/3	1/0	3/4	4/4	0/0	1/0	1/3	1/3	1/1	Diamide; Diamine; Nitrogen hydride	
Hydrazine hydrate	N ₂ H ₄ O	010217-52-4	aqueous	(T, C)	(X)	1/1	1/0	4/4	(4)	0/0	0/0	2/0	1/1	0/0	0/0	1/0	0/0	0/0	1/0	1/0	1/3	1/0	3/4	4/4	0/0	1/0	1/3	1/3	0/0		
Hydrocyanic acid, sodium salt	-> see: Sodium cyanide																														
Hydrogen	H ₂	001333-74-0	techn. pure	F+	X	1/1	1/1	1/0	1/0	0/0	0/0		1/1	1/0	0/0	1/1	1/1	0/0	0/0	(1)	1/1	1/1	1/0	1/0	1/1	0/0	1/1	1/1	1/1	1/1	
Hydrogen bromide	HBr	010035-10-6	40 %	C		1/0	1/1	4/4	4/4	(4)	4/4	4/4	1/1	4/4	0/0	1/1	3/3	0/0	0/0	1/1	1/1	1/1	3/0	1/0	4/4	0/0	(4)	(4)	(4)	0/0	
Hydrogen bromide	HBr	010035-10-6	50 %	C		1/1	1/2	4/4	4/4	(4)	4/4	4/4	1/2	4/4	0/0	1/1	3/3	0/0	1/1	1/1	1/1	1/1	3/0	1/0	4/4	0/0	(4)	(4)	(4)	0/0	
Hydrogen bromide	HBr	010035-10-6	diluted	C		1/1	1/1	4/4	4/4	3/0	4/4	4/4	1/1	4/4	0/0	1/1	3/0	0/0	0/0	1/1	1/1	1/1	3/0	1/0	4/4	0/0	(4)	(4			

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	thermoplastics																	fluoroplastics	elastomers	metals	COMMENT									
					FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	PEP	PTFE	PVDF	EPDM	FPM / FKM		NBR	SI	AL	V2A	V4A	Hastelloy C			
Methyl sulfuric acid	CH ₃ SO ₄	000077-78-1	50 %	(C)		0/0	1/1	4/4	(4)	(4)	(4)	(4)	(3)	1/1	4/4	0/0	3/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(2)	1/0	4/4	4/4	0/0	(4)	0/0	0/0	4/4	
Methyl sulfuric acid	CH ₃ SO ₄	000077-78-1	aqueous	(C)		0/0	0/0	4/4	(4)	(4)	(4)	(4)	0/0	4/4	(2)	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(2)	1/0	4/4	4/4	0/0	(4)	0/0	0/0	4/4	
Methyl-1-propanol, 2-	-> see: Isobutanol																																	
Methylchloroacetate	C ₂ H ₃ ClO ₂	000096-34-4	techn. pure	T/Xi	X	1/1	0/0	(3)	4/4	(4)	(4)	(4)	(3)	1/1	4/4	0/0	3/0	0/0	0/0	0/0	0/0	(1)	(1)	1/4	3/0	4/4	4/4	0/0	3/4	0/0	0/0	0/0		
Methylcyclohexane	C ₆ H ₁₄	000108-87-2		F, Xn	X	3/0	3/0	(2)	(2)	1/0	(4)	(2)	3/0	0/0	0/0	0/0	0/0	1/1	0/0	(1)	1/0	(1)	4/4	(1)	4/4	0/0	1/1	1/1	1/1	1/1	0/0			
Methylcyclopentane	C ₅ H ₁₂	000096-37-7		F	X	0/0	0/0	(2)	(2)	1/0	(4)	(2)	(3)	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	4/4	1/0	4/4	0/0	1/1	1/1	1/1				
Methylene chloride	CH ₂ Cl ₂	000075-09-2		Xn		4/4	4/4	3/4	4/4	4/4	3/4	3/0	3/4	4/4	4/4	4/4	4/4	4/4	2/2	1/1	1/1	1/3	4/4	3/3	4/4	0/0	4/4	1/1L	1/1L	1/1L				
Methylglycol acetate	C ₄ H ₁₀ O ₃	000110-49-6		T		0/0	0/0	1/0	(3)	0/0	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	3/0	4/4	4/4	0/0	(1)	(1)					
Methylolirane	-> see: Propylene oxid																																	
Methylpropyl acetate, 2-	-> see: Isobutyl acetate																																	
Milk	-																																	
Mineral oil	-																																	
Mineral oil	008012-95-1			(Xn)		1/1	2/4	(1)	1/2	1/1	1/2	1/1	1/3	1/1	1/1	1/2	0/0	0/0	1/1	1/1	1/1	1/1	1/1	4/4	1/1	2/2	0/0	1/1	1/1	1/1	0/0			
Mineral water	-																																	
Molasses	-																																	
Molasses wort	-																																	
Molasses wort	?																																	
Monochlorobenzene (MCB)	-> see: Chlorobenzene																																	
Monochloroethane	C ₂ H ₅ Cl	000075-00-3		F+, Xn	X	3/3	3/4	1/0	4/4	0/0	3/4	1/0	3/4	4/4	4/4	4/4	4/4	4/4	1/1	1/1	1/0	1/1	4/4	3/0	4/4	0/0	(3)	(1/1L) ¹⁾	(1/1L) ¹⁾	0/0		Ethyl chloride; Chloroethane, 1- ¹⁾ Water-free! If even traces of hydrochloric acid (HCl) are split off by moisture, there is a risk of pitting, crevice and stress corrosion cracking.		
Morpholine	C ₂ H ₅ NO	000110-91-8	techn. pure	C, Xn	X	1/1	1/1	(3)	(3)	0/0	0/0	(2)	1/1	0/0	0/0	4/4	4/4	0/0	0/0	(1)	1/1	1/3	3/0	2/3	4/4	0/0	1/0	(1)	(1)	0/0				
Motor oil	-																																	
Mowilith D	-																																	
Mowilith D	?																																	
Muscat	-																																	
Muscat	ground																																	
Mustard	-																																	
Mustard	?																																	
Naphtha	-																																	
Naphtha	(Xn)																																	
Naphthalene	C ₁₀ H ₈	000091-20-3	100 %	F, Xn	X	0/0	1/3	1/0	(3)	0/0	0/0	1/2	1/3	3/4	1/0	4/4	4/4	1/4	0/0	(1)	1/1	1/3	4/4	1/1	4/4	0/0	1/1	1/1	1/1	0/0				
Naphthalene (in alcohol)	-																																	
Naphthalene (in alcohol)	F, Xn																																	
Neon	Ne	007440-01-9				0/0	0/0	1/0	(1)	1/1	0/0	1/1	(1)	0/0	0/0	0/0	0/0	1/1	(1)	1/1	1/1	1/1	1/1	1/0	0/0	1/1	1/1	1/1	1/1	1/1				
Nickel acetate	C ₂ H ₃ NiO ₄	000373-02-4	aqueous	(T, N)		1/1	1/1	(3)	(2)	(1)	0/0	(2)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	1/0	(3)	3/0	0/0	4/4	0/0	0/0						
Nickel dichloride	NiCl ₂	007718-54-9	saturated	T		1/1	1/1	1/0	(2)	(1)	0/0	2/0	1/1	0/0	0/0	1/1	1/1	0/0	1/1	1/1	1/1	1/0	1/0	1/0	0/0	4/4	2/0L	2/0L	1/1					
Nickel dichloride	NiCl ₂	007718-54-9	aqueous	T		1/1	1/1	(3)	(2)	(1)	0/0	2/0	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/0	0/0	4/4	2/0L	2/0L	1/1					
Nickel sulfate	NiSO ₄	007786-81-4	saturated	Xn		1/1	1/1	1/0	1/0	(1)	1/0	2/0	1/1	1/1	0/0	0/0	1/1	1/3	1/1	0/0	1/1	1/1	1/1	1/0	1/1	1/1	0/0	4/4	1/1	1/1	1/1			
Nickel sulfate	NiSO ₄	007786-81-4	aqueous	Xn		1/1	1/1	(3)	1/0	(1)	0/0	2/0	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/1	1/1	0/0	4/4	1/1	1/1	1/1	1/1				
Nickelous nitrate	Ni(NO ₂) ₂	013138-45-9	saturated	(O ₂ , Xn)		1/1	1/1	(3)	(2)	(1)	0/0	(2)	1/1	1/0	1/0	1/1	1/1	0/0	0/0	1/1	1/1	1/0	1/0	1/0	0/0	4/4	1/0	1/0	1/1					
Nicotine	C ₁₀ H ₁₄ N ₂	000054-11-5		T+		1/0	1/0	(3)	(3)	0/0	0/0	(2)	1/0	1/0	0/0	1/0	0/0	0/0	(1)	(1)	(2)	1/0	1/0	1/1	0/0	(1)	(1)	(1)	0/0					
Nicotinic acid	C ₆ H ₇ NO ₂	000059-67-6	diluted	Xi		1/1	1/1	(3)	(2)	0/0	0/0	(3)	1/0	0/0	1/1	0/0	0/0	1/1	(1)	(1)	(2)	(2)	(3)	(2)	0/0	(3)	0/0	0/0						
Nitric acid	HNO ₃	007697-37-2	1-10 %	C		1/1	1/1	4/4	1/2	(2)	1/1	4/4	1/1	2/4	1/3	1/2	0/0	1/3	1/1	1/1	1/1	1/1	2/0	1/1	4/4	0/0	3/4	1/1	1/1					
Nitric acid	HNO ₃	007697-37-2	50 %	C+		2/4	3/4	4/4	4/4	(2)	2/4	4/4	3/4	4/4	2/3	2/3	0/0	0/3	1/1	1/1	1/1	1/1	4/4	1/0	4/4	0/0	4/4	1/2	1/2	1/2				
Nitric acid	HNO ₃	007697-37-2	66 %	C+		2/4	3/4	4/4	4/4	(4)	2/3	4/4	4/4	4/4	3/4	0/0	0/0	1/1	1/1	1/1	1/1	4/4	1/0	4/4	0/0	4/4	1/2	1/2	1/2					
Nitric acid	HNO ₃	007697-37-2	100 %	O, C+		4/4	4/4	4/4	4/4	(4)	0/0	4/4	4/4	0/0	0/0	4/4	0/0	4/4	0/0	1/1	4/4	4/4	4/4	4/4	0/0	1/1	2/3	3/3	?					
Nitric acid	HNO ₃	007697-37-2	70 %	O, C+		2/4	3/4	4/4	4/4	(4)	2/3	4/4	4/4	4/4	3/4	0/0	0/0	1/1	1/1	1/1	1/1	4/4	2/3	4/4	0/0	4/4	1/2	1/2	1/2					
Nitric acid	-> see: Ammonium nitrate																																	
Nitric acid, magnesium salt	-> see: Magnesium nitrate																																	
Nitric acid, potassium salt	-> see: Potassium nitrate																																	
Nitro benzolic acid	C ₇ H ₅ NO ₄	-																																
Nitro benzolic acid	(Xn)																																	
Nitro reducer	-																																	
Nitro reducer	?																																	
Nitrobenzene	C ₆ H ₅ NO ₂	000098-95-3		T		3/4	4/4	4/4	4/4	1/0	4/4	3/0	2/4	4/4	4/4	4/4	4/4	1/2	1/1	1/1	1/1	4/4	4/4	4/4	0/0	(1)	1/1	1/1	1/1					
Nitroethane	C ₂ H ₅ NO ₂	000079-24-3		Xn	X	0/0	0/0	(3)	(4)	0/0	0/0	(3)	(2)	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(3)	3/0	4/4	4/4	0/0	(1)	(1)	(1)						
Nitrogen	N ₂	007727-37-9		-		0/0	0/0	1/0	1/1	1/1	0/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	1/0	0/0	1/1	1/1	1/1						
Nitrogen hydride	-> see: Hydrazine																																	
Nitrogen tetroxide	NO ₂	010544-72-6		(O), T+, C		0/0	0/0	3/0	(3)	1/0	0/0	4/4	1/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(2)	4/4	4/4	4/4	0/0	(2)	(1)							
Nitroglycerine	C ₃ H ₅ (NO ₃) ₃	000055-63-0	diluted	(E, T+)		0/0	0/0	(3)	(3)	0/0	0/0	(2)	(2)	0/0	0/0	3/0	4/4	0/0	0/0	(1)	1/0	(3)	1/0	1/0	4/4	0/0	0/0	0/0	0/0					
Nitrohydrochloric acid	HNO ₃ + HCl	008007-56-5		C		4/4	4/4	4/4	4/4	3/3	4/4	4/4	4/4	4/4	4/4	3/4	1/1	(2)	1/1	3/0	4/4	4/4	4/4	0/0	4/4	4/4	4/4	4/4	4/4					
Nitropropane	C ₃ H ₇ NO ₂	-																																
Nitropropane	(T)																																	
Nitropropane	?																																	
Nitrose gases	-																																	
Nitrose gases	diluted																																	
Nitrotoluene	C ₇ H ₇ NO ₂	001321-12-6	techn. pure	T		1/3	1/3	4/4	4/4	1/0	(4)	3/0	1/3	4/4	0/0	4/4	4/4	0/0	0/0	(1)	1/1	1/1	4/4	4/4	4/4	0/0	(1)	1/1	1/1	1/1				
Nitrous acid, sodium salt	-> see: Sodium nitrite																																	
Nitrous oxide	N ₂ O	010024-97-2		(O)		0/0	0/0	(2)	(2)	(1)	0/0	(2)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	2/0	1/0	1/0	0/0	1/1	(1)						
Nonanol	-> see: Nonyl alcohol																																	
Nonyl alcohol	C ₉ H ₂₀ O	000143-08-8	100 %	Xn, Xi		0/0	1/1																											

CHEMICALS	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	thermoplastics																	fluoroelastomers		metals		COMMENT						
					FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART	PVC WEICH	SAN	ECTFE / ETFE	FEP	PTFE	PVDF	EPDM	FPM / FKM	NBR		SI	AL	V2A	V4A	Hastelloy C	
Octafluoropropane	C ₃ F ₈	000076-19-7	?		0/0	0/0	1/0	2/3	(1)	1/1	1/0	1/1	4/4	2/3	3/4	3/3	1/1	1/1	1/1	(1)	(1)	1/0	1/0	1/0	1/0	0/0	(3)	0/0	0/0			
Octane	C ₈ H ₁₈	000111-65-9		F, Xn	X	1/1	1/1	1/0	2/3	(1)	1/1	1/0	1/1	4/4	2/3	3/4	3/3	1/1	1/1	1/1	(1)	(1)	1/0	1/0	1/0	1/0	0/0	0/0	0/0			
Octyl carbinol	-> see: Nonyl alcohol																															
Octyl cresol ?	C ₁₅ H ₂₄ O	—	100 %	?		3/0	3/0	(3)	(4)	0/0	0/0	(3)	3/0	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	4/4	3/0	3/0	0/0	(1)	(1)	(1)	0/0	isomer not indicated in the source	
Oils and fats, vegetable	—	—	—	?		1/3	1/3	(2)	(2)	1/0	0/0	(2)	1/3	3/0	0/0	1/1	3/3	0/0	(1)	1/1	1/1	4/4	1/1	(2)	0/0	(1)	1/1	1/1	0/0			
Oils, essential	—	—	—	?		4/4	3/4	(2)	(3)	0/0	0/0	(2)	3/4	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(3)	4/4	(1-3)	(3)	0/0	1/1	(1)	(1)	0/0			
Oleic acid	C ₁₈ H ₃₄ O ₂	000112-80-1	techn. pure	Xi		1/3	1/3	1/0	1/0	1/0	0/0	2/0	1/3	1/3	0/0	1/1	0/0	1/3	0/0	(1)	1/1	1/1	4/4	2/2	3/0	0/0	1/1	1/1	1/1	0/0		
Oleic acid methyl ester	C ₁₉ H ₃₆ O ₂	000112-62-9	—	—		0/0	0/0	(2)	(3)	(2)	(4)	(2)	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	3/0	1/0	4/4	0/0	(1)	(1)	(1)				
Oleum	H ₂ SO ₄ x SO ₃	008014-95-7	10 % SO ₃	C+		4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	0/0	0/0	1/0	1/0	4/4	4/4	1/0	4/4	0/0	1/3	1/2	1/1	0/0	fuming sulfuric acid
Oleum steams	—	—	small	?		4/4	0/0	4/4	(3)	0/0	0/0	4/4	4/4	0/0	0/0	0/0	0/0	(1)	(1)	1/0	(3)	1/0	(3)	0/0	(3)	(1)	(1)		0/0	sulfur trioxide		
Olive oil	—	008001-25-0	—	—		1/3	0/0	(2)	(2)	1/0	0/0	1/1	1/1	1/1	0/0	1/1	0/0	1/1	0/0	(1)	1/1	1/1	4/4	1/1	1/1	0/0	1/1	1/1	1/1	0/0		
Orange juice	—	—	—	—		1/1	1/1	(1)	1/0	1/0	0/0	(2)	1/1	1/0	0/0	0/0	1/1	1/1	1/1	1/1	(1)	(1)	(1)	(1)	0/0	(2)	(1)	(1)				
Orange oil	—	008028-48-6	—	Xn		(3)	(3)	1/0	(3)	0/0	(4)	1/0	(3)	4/4	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(3)	4/4	(2)	(3)	0/0	(1)	(1)		mainly + limonene		
Orange oil, bitter	—	068916-04-1	—	?		2/3	3/4	(2)	3/3	1/0	3/3	(2)	2/3	4/4	3/3	3/4	0/0	0/0	1/1	1/1	(1)	(2)	4/4	(2)	(4)	0/0	(1)	(1)				
Oxacyclopentadiene	-> see: Furan																															
Oxalic acid	C ₂ H ₂ O ₄ x 2H ₂ O	000144-62-7	aqueous	Xn		1/1	1/1	4/4	(2)	(2)	0/0	4/4	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	(2)	1/0	1/1	3/3	0/0	1/0	2/3	1/3	1/2	Ethanedioic acid;	
Oxalic acid	C ₂ H ₂ O ₄ x 2H ₂ O	000144-62-7	—	Xn		1/1	1/1	3/4	1/0	0/0	1/1	4/4	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/3	1/0	1/1	3/3	0/0	1/0	2/3	1/3	1/3		
Oxygen	O ₂	007782-44-7	techn. pure	O		1/3	1/3	2/0	1/0	(1)	0/0	1/0	1/3	1/0	0/0	1/1	1/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	3/3	0/0	(2)	(1)	(1)	0/0		
Ozone	O ₃	010028-15-6	—	(O, T)		3/4	3/4	4/4	1/2	0/0	1/1	4/4	3/4	2/2	1/1	1/2	0/0	1/1	1/1	1/1	(1)	1/3	1/0	1/0	4/4	0/0	(2)	0/0	0/0	0/0		
Ozone-air-mixture	—	—	—	(O, T)		0/0	0/0	4/4	(2)	0/0	0/0	4/4	3/4	0/0	0/0	0/0	0/0	0/0	1/1	1/1	(1)	(2)	1/0	1/0	4/4	0/0	(2)	0/0	0/0	0/0		
Palm kernel oil	—	008023-79-8	—	—		0/0	0/0	1/0	(2)	1/0	0/0	(2)	1/3	1/1	0/0	0/0	0/0	0/0	(1)	1/1	1/1	4/4	1/0	1/1	0/0	(1)	1/1	1/1	1/1	1/1		
Palm oil	—	008002-75-3	—	—		1/3	0/0	1/0	(2)	1/0	0/0	(2)	1/3	0/0	0/0	1/0	0/0	1/1	0/0	(1)	1/1	1/1	4/4	1/0	1/1	0/0	(1)	1/1	1/1			
Palmitic acid	C ₁₆ H ₃₂ O ₂	000057-10-3	techn. pure	Xi		3/3	2/2	1/1	(2)	1/0	0/0	1/0	3/4	1/1	0/0	1/1	3/0	1/1	0/0	(1)	1/1	1/1	4/4	1/1	3/3	0/0	1/1	1/1	1/1	1/1		
Paraffin wax	—	008002-74-2	melted	(—)		0	0	0	(2)	0	0	(2)	0	0	0	0	0	0	0	(1)	1	0	4	2	1	0	1	1	1	1		
Paraffin-emulsion	—	—	—	?		1/3	0/0	1/0	(2)	(2)	0/0	(2)	1/3	0/0	0/0	1/0	0/0	0/0	0/0	(1)	1/1	1/1	(4)	1/0	1/1	0/0	(2)	(1)	(1)	0/0		
Paraffins	C _n H _{2n+2}	—	100 %	?		1/0	1/1	1/0	1/0	1/0	1/1	1/1	1/0	1/0	1/0	1/0	0/0	0/0	(1)	1/1	(1)	4/4	1/0	1/3	0/0	1/1	1/1	1/1	1/1	1/1		
Paraformaldehyde	(CH ₂ O) _n H ₂ O	030525-89-4	—	F, T	X	0/0	0/0	0/0	(2)	1/0	0/0	(2)	1/0	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(2)	3/0	1/0	3/3	0/0	(1)	(1)	(1)		Polyoxymethylene;		
Peanut oil	—	008002-03-7	—	—		0/0	0/0	0/0	(2)	1/0	0/0	(2)	1/1	1/1	0/0	0/0	1/1	0/0	(1)	1/1	(1)	4/4	1/0	1/0	0/0	(1)	(1)	(1)	0/0			
Pectin	—	009000-69-5	aqueous	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
Pectin	—	009000-69-5	—	—		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
Pelargonic alcohol	-> see: Nonyl alcohol																															
Penicillin	—	—	—	Xn		(1)	(1)	(2)	(1)	(1)	0/0	(1)	(2)	0/0	0/0	0/0	0/0	0/0	1/1	(1)	1/1	(1)	(1)	(2)	(1)	(2)	0/0	(1)	(1)	(1)	antibiotic	
Pentachlorobiphenyl	C ₁₂ H ₂ Cl ₅	—	—	Xn		0/0	0/0	1/0	(3)	0/0	0/0	(2)	4/4	0/0	0/0	0/0	0/0	0/0	0/0	(1)	(2)	4/4	3/0	4/4	0/0	(1)	0/0	0/0				
Pentamethylenimine	-> see: Piperidine																															
Pentane, normal	C ₅ H ₁₂	000109-66-0	—	F	X	1/3	1/3	1/0	1/0	(1)	(3)	1/0	(3)	(2)	0/0	0/0	0/0	1/0	0/0	(1)	(1)	(1)	4/4	1/0	1/2	0/0	1/1	1/1	1/1			
Pentanethiol, 1-	C ₅ H ₁₂ S	000110-66-7	—	Xn	X	0/0	0/0	(2)	(3)	0/0	(4)	(2)	(2)	0/0	0/0	0/0	0/0	4/4	0/0	(1)	(1)	(2)	4/4	(3)	(4)	0/0	(2)	(1)	(1)			
Pentanol, 1-	C ₅ H ₁₂ O	000071-41-0	—	Xn	X	1/1	1/2	1/0	1/0	1/0	2/3	1/0	1/1	1/3	3/0	2/3	3/0	0/4	1/1	1/1	1/1	1/1	3/0	2/4	3/0	0/0	1/2	1/1	1/1	0/0	Amyl alcohol, n-; Butyl carbinol, n-; Pentyl alcohol, n-	
Pentanone, 3-	C ₅ H ₁₀ O	000096-22-0	—	F		2/2	2/3	(3)	4/4	(4)	2/3	1/0	2/2	4/4	4/4	4/4	0/0	4/4	2/3	1/1	1/1	(3)	(3)	(4)	(4)	0/0	(1)	(1)	(1)	0/0	Diethyl ketone; Dimethylacetone; Methacetone	
Pentyl alcohol, n-	-> see: Pentanol, 1-																															
Pepper	—	—	ground	?		0/0	0/0	(2)	1/0	(1)	0/0	(2)	(2)	4/4	0/0	0/0	0/0	0/0	0/0	(1)	(1)	(1)	(2)	(2)	(2)	0/0	(1)	(1)	(1)			
Perchloric acid	HClO ₄	007601-90-3	70 %	E, O, C+		2/4	3/4	4/4	4/4	(4)	2/4	4/4	4/4	2/3	4/4	3/4	4/4	0/0	1/2	1/1	1/1	1/1	3/0	1/1	4/4	0/0	4/4	0/0	0/0	?		
Perchloric acid	HClO ₄	007601-90-3	20 %	Xi		0/0	1/3	4/4	3/0	0/0	0/0	4/4	1/3	0/0	0/0	1/3	3/0	0/0	0/0	1/1	1/1	1/1	2/0	1/1	4/4	0/0	4/4	0/0	0/0	1/1		
Perchlorotadiene	C ₄ Cl ₆	000087-68-3	—	T		0/0	0/0	(3)	4/4	0/0	(4)	1/0	(3)	4/4	0/0	0/0	0/0	0/0	0/0	(1)	(2)	(3)	4/4	1/0	4/4	0/0	(3)	0/0	0/0			
Perchloroethylene	-> see: Tetrachloroethylene																															
Perfluorocyclobutane	C ₄ F ₈	000115-25-3	—	?		0/0	0/0	1/0	(3)	0/0	0/0	1/0	(3)	0/0	0/0	0/																

CHEMICALS	thermoplastics										fluoroplastics		elastomers		metals		COMMENT														
	FORMULA	CAS-NR.	CONCENTRATION	HAZARD NOTE	FLAMMABLE	HDPE	LDPE	PA	PC	PETG	PMP	POM	PP	PS	PSU	PVC HART		PVC WEICH	SAN	ECTFE / ETFE	FEP	PTFE	PVDF	EPDM	FKM / FKM	NBR	SI	AL	V2A	V4A	Haselloy C
Soaps, liquid	—	—	—	—	1/1	1/1	1/0	(2)	(1)	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/1	1/1	0/0	(3)	1/1	1/1	1/1	
Soapy solution	—	—	each	(—)	1/1	0/0	4/4	(2)	1/1	0/0	1/1	1/1	0/0	0/0	1/3	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/1	1/1	0/0	(3)	1/1	1/1	1/1		
Sodium acetate	C ₂ H ₃ NaO ₂	000127-09-3	each	—	1/1	1/1	1/0	1/2	(1)	1/1	1/1	1/1	2/2	1/1	2/3	3/0	1/1	1/1	1/1	1/1	1/1	1/0	(3)	3/3	0/0	1/1	1/1	1/1	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	1/0	(2)	(2)	0/0	(1)	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/0	(1)	1/1	0/0	(1)	(1)	(1)	(1)	1/1	
Sodium benzoate	C ₇ H ₅ NaO ₂	000532-32-1	aqueous	Xn	1/1	1/1	(2)	(2)	(1)	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/0	1/1	0/0	1/1	1/0	1/0	1/1		
Sodium benzoate	C ₇ H ₅ NaO ₂	000532-32-1	aqueous	Xn	1/1	1/1	1/0	(2)	(1)	0/0	1/1	1/1	1/1	0/0	1/3	0/0	1/1	1/1	1/1	1/1	1/1	1/0	1/0	1/1	0/0	1/1	1/0	1/0	1/1		
Sodium bicarbonate	NaHCO ₃	000144-55-8	aqueous	—	1/1	1/1	1/0	1/0	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	1/1	1/1	1/1	1/1		
Sodium bisulfate	NaHSO ₄	007681-38-1	10 %	(C)	1/1	1/1	4/4	1/0	1/0	0/0	2/0	1/1	0/0	0/0	1/3	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/0	1/3	0/0	1/3	1/2	1/1	1/1		
Sodium bisulfate	NaHSO ₄	007681-38-1	each	(C)	1/1	1/1	1/0	1/0	0/0	(3)	1/1	1/3	0/0	1/4	0/0	1/1	1/1	1/1	1/1	1/1	1/1	1/0	1/0	1/3	0/0	1/3	(2)	1/1	1/1		
Sodium bisulfite	NaHSO ₃	007631-90-5	aqueous	Xn	1/1	1/1	1/0	(2)	1/0	0/0	4/4	1/1	0/0	0/0	0/0	0/0	(1)	1/1	1/1	1/1	1/1	1/0	1/0	1/0	0/0	1/0	1/1	1/1	1/1		
Sodium borate	Na ₂ B ₄ O ₇ · x H ₂ O	001303-96-4	saturated	Xi	1/1	1/1	1/0	1/0	(2)	1/0	1/1	1/1	1/1	1/0	1/3	1/0	1/1	1/1	1/1	1/1	1/1	1/1	1/0	3/3	0/0	1/3	1/1	1/1	1/1		
Sodium borate	Na ₂ B ₄ O ₇ · x H ₂ O	001303-96-4	aqueous	Xi	1/1	1/1	1/0	(2)	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/1	1/1	1/0	1/0	0/0	1/3	1/1	1/1	1/1		
Sodium bromate	NaBrO ₃	007789-38-0	each	O, T	1/0	1/3	(3)	(2)	0/0	0/0	1/1	1/1	1/1	0/0	1/0	0/0	1/1	0/0	(1)	1/1	1/1	(2)	(1)	1/3	0/0	1/1	1/1L	1/1L	0/0		
Sodium bromide	NaBr	007647-15-6	each	Xi	1/1	1/1	1/0	(2)	(1)	0/0	1/1	1/1	1/1	0/0	1/3	0/0	1/1	1/1	1/1	1/1	1/1	(1)	(1)	1/3	0/0	4/4	0/0	0/0	0/0		
Sodium carbonate	Na ₂ CO ₃	000497-19-8	saturated	Xi	1/1	1/1	1/0	1/0	0/0	1/0	1/1	1/1	1/1	1/0	1/1	1/1	1/1	1/1	1/1	1/1	1/3	1/1	1/1	0/0	3/4	1/1	1/1	1/1	1/1		
Sodium carbonate	Na ₂ CO ₃	000497-19-8	aqueous	Xi	1/1	1/1	1/0	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/3	1/1	1/1	1/1	1/1	0/0	3/4	1/1	1/1	1/1		
Sodium carbonate	Na ₂ CO ₃	000497-19-8	Xi	Xi	1/1	1/1	1/0	1/0	0/0	1/1	1/1	2/0	0/0	1/1	0/0	1/2	1/1	1/1	1/1	1/3	1/1	1/1	1/1	0/0	3/4	1/1	1/1	1/1			
Sodium chlorate	NaClO ₃	007775-09-9	each	O, Xn	1/1	1/0	1/0	1/0	0/0	1/0	2/0	1/1	1/0	0/0	1/3	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/1	2/3	0/0	1/0	1/1L	1/1L	1/1	Chloric acid, sodium salt;	
Sodium chlorate	NaClO ₃	007775-09-9	aqueous	O, Xn	0/0	0/0	3/0	1/0	1/0	0/0	2/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/1	3/3	0/0	1/0	1/1L	1/1L	1/1		
Sodium chloride	NaCl	007647-14-5	each	—	1/1	1/1	1/0	1/1	1/1	1/2	1/1	1/1	1/1	1/1	1/3	1/3	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	3/4	1/2	1/2	1/1			
Sodium chloride	NaCl	007647-14-5	aqueous	—	1/1	1/1	1/1	1/1	1/1	1/2	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	3/4	1/2	1/2	1/1	
Sodium chlorite	NaClO ₂	007758-19-2	diluted	(O, Xn)	1/0	1/3	1/4	(2)	0/0	0/0	(2)	1/3	0/0	0/0	3/0	4/4	0/0	(1)	1/1	1/1	1/0	1/1	4/4	0/0	3/4	3/4	3/3	0/0			
Sodium chromate	NaCrO ₄	007775-11-3	diluted	T	1/0	1/0	1/1	(2)	0/0	0/0	(2)	1/1	1/1	0/0	1/3	0/0	1/1	0/0	(1)	1/1	1/1	1/0	1/0	1/3	0/0	1/1	1/1	1/1	0/0		
Sodium cyanide	CNNa	000143-33-9	saturated	T	1/1	1/1	1/0	(3)	0/0	0/0	3/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	3/3	0/0	4/4	(2)	(2)	0/0	Hydrocyanic acid, sodium salt;	
Sodium cyanide	CNNa	000143-33-9	aqueous	T	1/1	1/1	1/0	(3)	1/0	0/0	3/0	1/1	0/0	0/0	0/0	0/0	0/0	0/0	1/1	1/1	1/1	1/0	1/0	1/0	0/0	4/4	(2)	(2)	0/0		
Sodium dichromate	Na ₂ Cr ₂ O ₇	010588-01-9	T	T	0/0	1/1	1/0	1/0	3/0	1/1	(3)	1/1	1/1	0/0	1/0	0/0	0/0	1/1	(1)	1/1	1/1	1/0	1/0	3/3	0/0	1/1	(1)	(1)	1/1		
Sodium dithionite	-> see: Sodium hydrosulfite																														
Sodium dodecylbenzene sulfonate	C ₁₈ H ₃₅ NaSO ₃	025155-30-0	Xn	Xn	1/1	1/1	(2)	(2)	1/0	0/0	1/1	1/1	0/0	0/0	0/0	0/0	0/0	(1)	1/1	(1)	(1)	(1)	(2)	0/0	(2)	(1)	(1)				
Sodium ferrocyanide	C ₆ FeNa ₆ N ₆	013601-19-9	Xn	Xn	1/1	1/1	(1)	(2)	1/0	0/0	(2)	1/1	0/0	0/0	0/0	0/0	1/1	1/1	(1)	(1)	(1)	(1)	(2)	0/0	(1)	(1)	(1)				
Sodium fluoride	NaF	007681-49-4	saturated	T	1/1	1/1	1/0	(2)	1/0	1/1	1/1	1/0	0/0	1/0	1/3	1/1	0/0	1/1	1/1	1/1	1/1	1/0	1/0	1/0	0/0	1/1	0/0	0/0	0/0	1/1	
Sodium hydrosulfite	Na ₂ S ₂ O ₄	007775-14-6	10 %	Xn	1/1	0/0	(2)	(2)	(2)	0/0	(2)	1/1	0/0	0/0	1/3	0/0	1/1	0/0	(1)	1/1	1/3	1/0	1/1	3/3	0/0	4/4	1/1	1/1		Sodium dithionite; Dithionous acid, disodium salt; Sodium sulfoxylate;	
Sodium hydrosulfite	Na ₂ S ₂ O ₄	007775-14-6	aqueous	Xn	1/1	0/0	(2)	(2)	(2)	0/0	(2)	1/1	0/0	0/0	1/3	0/0	1/1	0/0	(1)	1/1	1/3	1/0	1/1	3/3	0/0	4/4	1/1	1/1			
Sodium hydroxide	NaOH	001310-73-2	concentrated	C	1/1	1/1	1/3	4/4	4/4	(3)	1/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	1/1	(2)	1/0	4/4	3/4	0/0	4/4	(2)	(2)	?	caustic soda, sodium hydrate, soda lye		
Sodium hydroxide	NaOH	001310-73-2	30 %	C+	1/1	1/1	1/0	4/4	4/4	1/0	1/3	1/1	1/0	1/0	1/3	1/3	0/0	0/0	1/1	(1)	(2)	1/0	(3)	2/3	0/0	4/4	1/3	1/3	1/1	caustic soda, sodium hydrate, soda lye	
Sodium hydroxide	NaOH	001310-73-2	45 %	C+	1/1	1/1	1/0	4/4	4/4	1/0	1/3	1/1	1/1	1/0	1/3	1/3	1/1	0/0	0/0	1/1	(2)	1/0	2/4	2/3	0/0	4/4	1/3	1/3	1/1	caustic soda, sodium hydrate, soda lye	
Sodium hydroxide	NaOH	001310-73-2	50 %	C+	1/1	1/1	1/0	4/4	4/4	1/1	1/3	1/1	2/2	1/1	1/2	0/0	0/3	1/1	1/1	1/1	3/3	1/0	3/4	3/3	0/0	4/4	1/3	1/3	1/1	caustic soda, sodium hydrate, soda lye	
Sodium hydroxide	NaOH	001310-73-2	60 %	C+	1/1	1/1	1/0	4/4	4/4	1/0	(3)	1/1	1/0	0/0	0/0	0/0	0/0	0/0	1/1	(2)	1/0	3/4	2/3	0/0	4/4	1/3	1/3	1/1	1/1	caustic soda, sodium hydrate, soda lye	
Sodium hydroxide	NaOH	001310-73-2	1 %	Xi	1/1	1/1	1/0	3/4	(3)	1/1	1/1	1/1	2/2	1/1	1/1	0/0	0/0	1/1	1/1	1/1	1/1	1/0	1/1	1/3	0/0	(4)	1/1	1/1	1/1	caustic soda, sodium hydrate, soda lye	
Sodium hypochlorite	NaClO	007681-52-9	diluted	(O, C)	2/3	2/3	4/4	(3)	3/0	1/3	4/4	2/3	1/3	1/1	1/3	1/0	1/1	0/0	1/1	1/1	1/1	3/0	1/3	4/4	0/0	4/4	3/3L	2/2L	0/0	sodium oxychloride, sodium chloride oxide	
Sodium hypochlorite	NaClO	007681-52-9	15 %	O, C	2/3	2/3	4/4	2/3	(3)	1/3	4/4	2/3	1/3	1/1	1/1	0/0	1/1	1/1	1/1	1/1	3/4	3/0	1/3	4/4	0/0	4/4	3/3L	2/2L	0/0	sodium oxychloride, sodium chloride oxide	
Sodium hypochlorite	NaClO	007681-52-9	saturated	O, C	2/3	2/3	4/4	2/3	(3)	1/3	4/4	2/3	1/3	1/1	1/3	0/0	1/1	0/0	(1)	1/1	(3)	3/0	1/3	4/4	0/0	4/4	3/3L	2/2L	0/0	sodium oxychloride, sodium chloride oxide	
Sodium																															

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	not resistant
K	no general information available
L	danger of pitting or stress-cracking corrosion
()	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 for the environment

Description of the materials

Thermoplastics

HDPE	Polyethylene (high density)
LDPE	Polyethylene (low density)
PA	Polyamide (Nylon)
PC	Polycarbonate
PETG	Polyethylene terephthalate glycol (PET copolymer)
PMP	Polymethylpentene (TPX)
POM	Polyoxymethylene, polyacetal
PP	Polypropylene
PS	Polystyrene
PSU	Polysulfone
PVC	Polyvinyl chloride
SAN	Styrene-acrylnitrile

Fluoroplastics

E-CTFE	Ethylene-chlorotrifluoroethylene (Halar)
ETFE	Ethylene-tetrafluoroethylene
FEP	Tetrafluoroethylene-perfluoropropylene (Teflon, FEP)
PTFE	Polytetrafluoroethylene (Teflon)
PVDF	Polyvinylidene fluoride

Elastomers

EPDM	Ethylene-propylene-diene rubber
FPM/FKM	Fluorinated rubber (Viton)
NBR	Acryl-nitrile-butadiene rubber
SI	Silicone rubber

Metals

Al	Aluminium
V2A	Stainless steel 1.4301 (AISI 304)
V4A	Stainless steel 1.4401 (AISI 316)
Hastelloy C	Nickel-chromium-molybdenum alloy