

Against chemical health risks

The handling of chemicals can result in serious harmful effects. This can occur via absorption through the skin, which then via the blood damages the internal organs, which in turn can lead to cancer, affect the ability to reproduce or damage genetic material. Chemicals can also cause corrosion injuries, oversensitivity (sensibilisation) and eczema to the skin.

When working with chemicals you should begin by finding out about the danger of the chemical and how long/often the gloves must be used. Advice is available in the catalogue under “Important to know about protective gloves” and in our information booklet “Are you using the correct protective gloves?”, which can be downloaded from our web site.

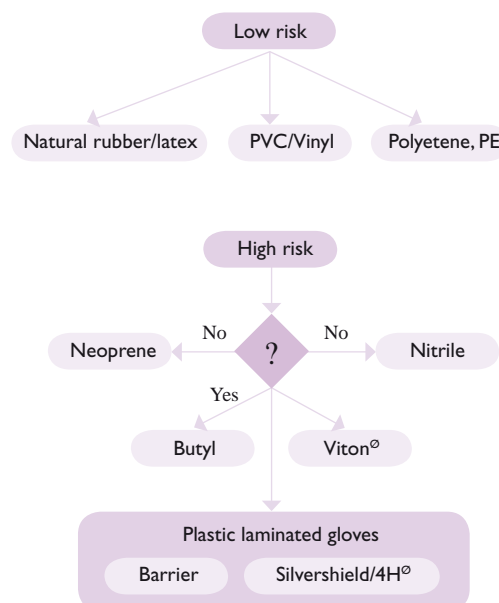
In order for protection to be safe it is important that the correct material is chosen for the work that is to be performed. The Chemical Protection Guide contains recommendations that are based on the results of a large number of material tests in accordance with a standardised method. Note that the recommendations are based on the tests that were conducted at room temperature. The actual usage time may be shorter if the glove is used in environments with raised temperatures and wear. In addition, there are no guarantees that the gloves can be used for more than 8 hours (see the dark green fields in the table) or reused after the work has ended. According to the standard, glove material must be tested for up to 8 hours, which will correspond to a working day.

Please contact Ejendals’ specialists who will help you to determine your protective requirements.

STRATEGY FOR THE CHOICE OF THE CORRECT PROTECTIVE GLOVE

In order to simplify the choice of the correct protective glove, we at Ejendals have developed a simple strategy that is illustrated in the following figure. When working where the risk is low and the skin is exposed to chemicals with low health dangers, it may be appropriate to choose natural rubber, PVC or polyethene gloves.

If the chemical can cause harmful effects and the risk is deemed to be high, significantly higher requirements are placed on the choice of the correct material. Let us take an example. Acetaldehyd is classed as harmful because the chemical is suspected of being able to give cancer. The chemical therefore belongs to the category “High Risk”. Acetaldehyde can be found at the top of the table.



Chemical protection guide

Light green fields represent more than 4 hours protection against breakthrough and dark green fields represent more than 8 hours protection against breakthrough. Light green fields indicate even if testing on permeation is interrupted after 4 hours.

Note: The recommendations are based on reports from permeation tests that were conducted at room temperature during continual contact. At higher temperatures the breakthrough time can be shortened.

T+ = Very toxic
 T = Toxic
 K = Can lead to cancer
 M = Can lead to genetic damage
 S = Can lead to allergies
 R = Can lead to reduced ability to reproduce
 Xn = Harmful

Xi = Irritant
 Cx = Very corrosive
 C = Corrosive
 F+ = Extremely combustible
 F = Very combustible
 3 after K or M = "suspected of leading to cancer"

Chemical name (Synonym)	Butyl rubber	Natural rubber	Neoprene rubber	Nitrile rubber	Polyethylene, PE	Polyvinyl alcohol PVA	Polyvinyl chloride PVC	Viton®	Barrier (PE/PA/PE)	Silver Shield/4H® (PE/EVAL/PE)	Danger
Acetaldehyde	Dark Green	Red	Red	Red	Red	Red	Red	Red	Dark Green	Dark Green	Xn, K3, F+
Acetone	Dark Green	Red	Red	Red	Red	Red	Red	Red	Dark Green	Dark Green	F
Acetonitrile	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, F
Acrylamide, 30-70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2, M, R, S
Acrylonitrile	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2, F
Acryl acid	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C
Allyl alcohol	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T
Allylamine	Light Green	Red	Red	Red	Red	Red	Red	Red	Dark Green	Dark Green	T
Allylchloride (3-Chloropropene)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T+, F
Ammonium flouride, 30-70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T+, F
Ammonia solution, 30%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C
Aniline	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, C3
Battery acid	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C
Benzene	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K1
Petrol, unleaded	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2
Benzoyl chloride	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2
Benzaldehyde	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, K3, F+
3-Bromopropionic acid	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C
Hydrobromic acid, 30-70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Cx
n-Butyl acetate	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	
n-Butanol (Butyl alcohol)	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Butyl acrylate	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, S
n-Butylamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	X, C, F
Butyl glycol (2-Butoxy ethanol)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Butyl glycol acetate (2-Butoxyethyl)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	X, C, F
gamma-Butyrolactone	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	X
Cyclohexane	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Cyclohexanole	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Cyclohexanone	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	X
Diesel	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	X, K3, F
Diethanolamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Diethylamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C, X, F
Diethyldichlorosilane	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C, F
Dietylglycol	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn
Diethylenetriamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C, X, S

Chemical name (Synonym)	Butyl rubber	Natural rubber	Neoprene rubber	Nitrile rubber	Polyethylene, PE	Polyvinyl alcohol PVA	Polyvinyl chloride PVC	Viton®	Barrier (PE/PA/PE)	Silver Shield/4H® (PE/EVAL/PE)	Danger
Diglycidyl ether of bisphenol A	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, S
Diisobutyl ketone	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Diisopropylamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C, Xi, F
2-(Diethylamino)ethanol	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C, Xn
1,2-Dichlorobenzene (o-Dichlorobenzene)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
1,2-Dichloroethylene	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, F
N,N-Dimethylacetamide	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, R
N,N-Dimethylaniline (DMA)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K3
Dimethylformamide (DMF)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T
Dimetyl sulphate	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T+, K2, M, S, C
Dimethylsulphoxide	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Di-n-butyl phthalate (DBP)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, R
Diocetyl phthalate (DOP)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, R
1,4-Dioxane	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, K3, F
Dynamite	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T+
Epichlorohydrin	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2, S, C
Epoxy, base/accelerator	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, S
Ethanol (Ethyl alcohol)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	F
Ethanolamine	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi
Ethyl acetate	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, F
Ethyl acrylate	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, S, F
Ethylamine (Monoethylamine)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, F+
Ethylbenzene	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, F
Ethylenediamin (1,2-Diaminoethane)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, C, S
Ethylene dichloride (1,2-Dichloroethane)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2
Ethyleneglycol	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn
Ethylene oxide gas	Light Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, K2, M, F+
Ethyl ether (Diethyl ether)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xn, F+
Ethyl glycol (2-Ethoxyethanol)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, R
Ethyl glycol acetate (2-Ethoxyethyl acetate)	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, R
Ethyl methacrylate	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	Xi, S, F
Phenol, > 70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, C
Fluorhydric acid, 30-70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T+, Cx
Formaldehyde, 30-70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	T, C, S
Phosphoric acid, >70%	Dark Green	Red	Red	Red	Red	Light Green	Red	Red	Dark Green	Dark Green	C

The recommendations do not apply to thin (< 0,3 mm) Natural Rubber, Neoprene, Nitrile or PVC gloves

- > 8 hours is recommended.
- > 1 hour is not recommended. (Degradation can occur)
- > 4 hours is recommended.
- Not tested.
- Caution I - 4 hours.

Chemical name (Synonym)	Butyl rubber	Natural rubber	Neoprene rubber	Nitrile rubber	Polyethylene, PE	Polyvinyl alcohol PVA	Polyvinyl chloride PVC	Viton®	Barrier (PE/PA/PE)	Silver Shield/4H® (PE/EA/PE)	Danger
Photogen	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Freon 113/TF	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Furfural (2-Furaldehyde)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K3
Furfuryl alcohol	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Tannin	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, C
Glutaraldehyde, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, S
Hepthane	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Hexamethylene-1,6-diisocyanate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, S
Hexamethyldisilasan	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, C, F
n-Hexane	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Hydraulic oil	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Hydrazine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, C, K2
Hydrochinon	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	X, S, K3, M3
2-Hydroxyethyl acrylate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, S
2-Hydroxyethyl methacrylate (HEMA)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, S
Isophorone diisocyanate (IDI)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, S
Isobutanol (Isobutyl alcohol)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Isopropanol (Isopropyl alcohol)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Potassium hydroxide, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Capryl acid (Octane acid)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C
Chlorobenzene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
2-Chloroethanol	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+
Chlorine gas	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T
1-Chloronaphthalene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Chloroform (Trichloromethane)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, K3
Chloroprene (2-Chloro-1,3-butadiene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F
o-Chlorotoluene (2-Chlorotoluene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Chloroacetic acid (Monochloroacetic acid)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, C
Carbon disulphide	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, R
Carbon tetrachloride	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K3
Cresol	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, C
Chromic acid, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, Cx, K, S
Cumen (Isopropylbenzene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Aqua regia	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Paint naphta (Low aroma naphta)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Laurin acid, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Limonene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, S
Malein acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Mercaptoacetic acid (Thioglycol acid)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, C
Methacryl acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx, Xn
Methanol (Methyl alcohol)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T
Methyl acetate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, F
Methylamine, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, F+
Methylenbisphenyl-44'-diisocyanate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, S
Methylenbromide (Dibromomethane)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
4,4-Methylenedianiline (MDA)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K, S
Methylenchloride (Dichloromethane)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, K3
Methylethylketon (MEK)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
Methyl glycol (2-Methoxyethanol)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, R
Methyl glycol acetate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, R
Methylisobutylketone (MIBK)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F
Methyl iodide (Iodine methane)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K

Chemical name (Synonym)	Butyl rubber	Natural rubber	Neoprene rubber	Nitrile rubber	Polyethylene, PE	Polyvinyl alcohol PVA	Polyvinyl chloride PVC	Viton®	Barrier (PE/PA/PE)	Silver Shield/4H® (PE/EA/PE)	Danger
Methyl methacrylate	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, S
Methyl tert-butyl ether (MTBE)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, F
Morpholine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C
Formic acid, >70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Sodium hydroxide, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Sodium hypochlorite, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C
Nicotine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+
Nitrobenzene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K3
Nitroglycerol (Nitroglycerin)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+
Nitroglycol	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+
Nitromethane	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
2-Nitropropane	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K
2-Nitrotoluene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T
Olein acid (Oil acid)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Oxalic acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Palmitin acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Pentachlorophenol	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+, K3
n-Pentane	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F+
Perchloroethylene (Tetrachloroethylene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, K3
Perchloric acid, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Picric acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T
Piperazine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C, S
Polychlorinated biphenyls (PCB)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
n-Propanol (Propyl alcohol)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, F
1,2-Propylenoxide	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K, M, F+
Pyridine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F
Round Up® (Glyphosate)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Potassium nitrate acid, 30-70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Muriatic acid 37%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, Cx
Lubricating oil	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Butter acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C
Styrene (Vinylbenzene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Sulphuric acid, > 70%	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Terpentine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, S
Tetrahydrofuran	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi, F
Toluene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F
Toluene-2,4-diisocyanate (TDI)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T+, S, K3
o-Toluidine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K
111-Trichloroethane (Methyl chloroform)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn
Tricresylphosfat	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T
Triethanolamine, >70% (TEA)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Triethylamine	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C, Xn, F
Triethylenetetraamine (TETA)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, S
Trichloroethylene (TRI)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K, M
Trichloroacetic acid	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Vinylidene chloride (1,1-Dichloroethylene)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xn, F+
Vinyl chloride gas (Chloroethane)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	T, K, F+
Hydroperoxide, 30-70% (Hydrosuperoxide)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C
Xylene	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Xi
Acetic acid (glacial acetic acid)	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Cx
Acetic acid anhydride	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	C