PERCHLOROETHYLENE

PRODUCT IDENTIFICAT	ION					
CAS NO	127-18-4 ° C					
EINECS NO.	204-825-9					
FORMULA						
MOL WT.	165.83					
h.s. code	2903.23					
TOXICITY	Oral rat LD50: 2629 ma/ka					
SYNONYMS	Tetrachloroethene; 1,1,2,2-Tetrachloroethylene;					
Ethylene Tetrachloride	; Dowper; Perclene; Nema; Tetracap; Tetropil; Ankilostin; Didakene; Carbon					
Dichloride; Perchlor: Antisol 1; Fedal-un; Perawin; Perclene d; Percosolve; Perklone; Persec; Tetlen;						
Tetraleno; Tetralex; tetravec; Tetroguer; Tetrochloroethane; Tetrachloroethylene; Czterochloroetylen						
(Polish); Perchloorethyleen (Dutch); Perchloraethylen, ; Perchlorethylene (French); Percloroetilene						
(Italian); Tetrachlooretheen (Dutch); Tetrachloraethen (German); Tetracloroetene (Italian); PER;						
DERIVATION						
CLASSIFICATION						
PHYSICAL AND CHEMI	ICAL PROPERTIES					
PHYSICAL STATE	Colorless liquid with an ether or chloroform like odor					
MELTING POINT	-22 C					
BOILING POINT	121 C					
SPECIFIC GRAVITY	1.623					
SOLUBILITY IN WATER	Nearly insoluble					
	5.2					
	Lealth: 2: Flammability (): Pagativity ()					
	Healin: 2; Fiammability: 0; Reactivity: 0					
	1.3049 Nono					
	None Stable under ordinary conditions but may be slowly decomposed by light and					
STADILITT	prolonged storage					
GENERAL DESCRIPTION	N & APPLICATIONS					
Perchloroethylene (al	so called Tetrachloroethylene) is a clear colourless, dense liquid with a					
distinctive, somewhat	ether-like odour. It is non flammable highly stable, having no measurable					
flash point or flammak	ole limits in air, belonging to the family of organic halogen compounds. This					
chemical is oxidized by strong oxidizing agents like sulfuric acid, nitric acid and sulfur trioxide but						
incompatible with stro	ong bases. It reacts violently with barium, beryllium lithium, dinitrogen					
tetraoxide and aluminum. Perchloroethylene does not occur naturally but is a manufactured						
chemical mainly by o	xyhydrochlorination, perchlorination, or dehydrochlorination of hydrocarbons					
or chlorinated hydrocarbons. It's broad applications are based upon its nonflammability and low						
toxicity. It is the most widely used solvent in dry cleaning displacing carbon tetrachloride and						
trichloroethylene and also used for cleaning metals and certain other solids in vapour-degreasing						
apparatuses. It is used as a solvent for fats, greases, waxes, rubbers, gums and caffeine from						
cottee. It is also used for processing textiles, as an anthelminthic against ancylostoma, necator,						
nematodes and trematodes in veterinary medicines, a heat-exchange fluid and in copying						
machines. This compound is used as an intermediate to manufacture trichloroacetic acid,						
nuorocarbons, paint removers and in printing inks. Small quantifies are employed as a vermituge.						
ADDEADANCE	Calarlass liquid with an other or oblaraform like oder					
	0.107 may					
	0.102% may					
	0.003% max					
	100 C min					
	120 C min					

350kgs in drum 6.1 (Packing group: III) 1897

HAZARD CLASS UN NO. OTHER INFORMATION

PACKING

European Hazard Symbols: XN N, Risk Phrases: 40-51/53, Safety Phrases: 23-36/37-61 CHLORINATED SOLVENTS

COMPOUND	CAS #	FORMULA (MOL WT.)	BOILING POINT C	DENSITY	VAPOR DENSITY
Methyl chloride	74-87-3	CH₃CI (50.49)	-24.2	0.915	1.74
Methylene chloride	75-09-2	CH ₂ Cl ₂ (84.93)	39.8	1.3	2.9
Chloroacetic Acid	79-11-8	CICH ₂ COOH (94.50)	188	1.58	3.3
1,1-Dichloroethene	75-35-4	CH ₂ =CCl ₂ (96.94)	31.7	1.213	3.4
1,2-Dichloroethylene (isomer mixture)	540-59-0	CICH=CHCI (96.94)	48 - 60	1.3	3.4
1,1-Dichloroethane	75-34-3	CH ₃ CHCl ₂ (98.96)	57.3	1.2	3.4
Ethylene dichloride	107-06-2	CICH ₂ CH ₂ CI (98.96)	83.5	1.2	3.4
Chloroacetic Chloride	79-04-9	CICH ₂ COCI (112.94)	105	1.42	3.9
1,2-Dichloropropane	78-87-5	CH ₃ CHCICH ₂ CI (112.99)	96.8	1.2	3.9
Chloroform (Trichloromethane)	67-66-3	CHCl ₃ (119.38)	61.7	1.5	4.1
Trichloroethylene	79-01-6	CICH=CCI ₂ (131.39)	86.7	1.5	4.5
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	Cl ₃ CCH ₃ (133.40)	74.1	1.3	4.6
1,1,2-Trichloroethane	79-00-5	CICH ₂ CHCl ₂ (133.40)	113.8	1.4	4.6
1,2,3-Trichloropropane	96-18-4	CH ₂ CICHCICH ₂ CI (147.43)	156	1.4	5.1
Carbon Tetrachloride	56-23-5	CCl ₄ (153.82)	76.7	1.6	5.3
1,1,2,2-Tetrachloroethylene	127-18-4	CCl ₂ =CCl ₂ (165.83)	121.1	1.6	5.8
1,1,2,2-Tetrachloroethane	79-34-5	CHCl ₂ CHCl ₂ (167.85)	146.3	1.6	5.8

The production and use of 1,1,1-trichloroethane and carbon tetrachloride have been phased out throughout the world because of suspected harm to the earth's ozone layer.