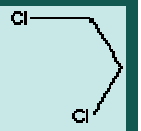
ETHYLENE DICHLORIDE



PRODUCT IDENTIFICATION

CAS NO.	107-06-2
EINECS NO.	203-458-1
FORMULA	$C_2H_4Cl_2$
MOL WT.	98.96
H.S. CODE	
TOXICITY	Oral rat LD50: 670 mg/kg
SYNONYMS	1,2-Dichloroethane; Ethylene Chloride; 1,2-Bichloroethane; Bichlorure D'ethylene (French); Chlorure D'ethylene (French); Cloruro Di Ethene (Italian); 1,2-DEC; 1,2- Dichloorethaan (Dutch); 1,2-Dichlor-aethan (German); Dichloremulsion; Dichloro-1,2- Ethane (French); Alpha,Beta-dichloroethane; 1,2-dicloroetano (Italian); Ethane Dichloride; Ethyleendichloride (Dutch);
RAW MATERIALS CLASSIFICATION	

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Clear liquid with a chloroform-like odor
MELTING POINT	-35 C
BOILING POINT	83.5 C
SPECIFIC GRAVITY	1.253
SOLUBILITY IN WATER	Slightly soluble
pH	
VAPOR DENSITY	3.42
AUTOIGNITION	
NFPA RATINGS	Health: 2 ; Flammability: 3 ; Reactivity: 0
REFRACTIVE INDEX	1.4448
FLASH POINT	
STABILITY	

APPLICATIONS

The largest usage of this compound is for the production of vinyl chloride monomer, which is used to produce polyvinyl chloride (PVC). It can also be used as a solvent, fumigant, degreaser, paint remover and intermediate for other organic compounds (methyl chloroform, perchloroehtylene and ethylene amines, polyvinyl chloride, sulfide compounds, acetyl cellulose, trichloroethylene, vinylidene chloride and trichloroethane). It is also used as an antiknock additive in leaded fuels.

SALES SPECIFICATION

APPEARANCE	Clear liquid with a chloroform-like odor
PURITY	99.94% min
COLOR, APHA	10 max
LOW BOILING IMPURITIES	450ppm max
HIGH BOILING IMPURITIES	300ppm max
OXYGENATED IMPURITIES	50ppm max
NONCHLORINATED C3 & HIGHER	250ppm max
ALKALINITY (as	10ppm max

NAOH)	
ACIDITY (as HCL)	5ppm max
WATER	100ppm max
IRON	1ppm max
NON VOLATILE RESIDUE	50ppm max
FREE HALOGENS	None
TRANSPORTATION	
PACKING HAZARD CLASS UN NO.	 6.1 (Packing droup : II) 1184
CHLORINATED SOLVENTS	
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.	