

GEBAUER COMPANY
9410 ST. CATHERINE AVE.
CLEVELAND, OH 44104

1-800-321-9348 toll free or (216) 271-5252
FAX (216) 271-5335; WEBSITE: www.gebauerco.com
AFTER HOURS EMERGENCY: CHEMTREC (800) 424-9300

MATERIAL SAFETY DATA SHEET

ETHYL CHLORIDE

I. IDENTIFICATION

TRADE NAME SYNONYM	ETHYL CHLORIDE	REVISION DATE	SEPTEMBER, 2001 BY S. WOJCIK, A. FRY
CHEMICAL NAME SYNONYMS	ETHYL CHLORIDE, CHLOROETHANE HYDROCHLORIC ETHER	CAS NO.	75-00-3
CHEMICAL FAMILY	HALOGENATED HYDROCARBON	FORMULA	C₂H₅Cl

II. HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENTS		CAS NO.	%	EXPOSURE LIMITS
ETHYL CHLORIDE		75-00-3	100	OSHA PEL: 1000 PPM ACGIH TWA: 100 PPM Skin; A3, See Section V.
<u>NPCA-HMIS RATINGS</u>	<u>EPA HAZARD CATEGORIES:</u>	<u>LISTS</u>		
HEALTH 1	CHRONIC HEALTH NO	EXTREMELY HAZARDOUS		
FLAMMABILITY 4	ACUTE HEALTH YES	SUBSTANCE: NO		
REACTIVITY 0	FIRE HAZARD YES	CERCLA HAZARDOUS		
PERSONAL PROTECTION See Sec. VIII.	PRESSURE HAZARD YES	SUBSTANCE YES		
	REACTIVITY HAZARD NO	TOXIC CHEMICALS YES		

III. PHYSICAL DATA

BOILING POINT: 54.1°F (12.3°C)	FREEZING POINT: -213.5°F (-136.4°C)	EVAPORATION RATE: GREATER THAN 1 (BUTYL ACETATE = 1)
VAPOR PRESSURE: at 68° F (20°C) = 20.1 psia (5.4 psig)	LIQUID DENSITY at 68°F (20°C) = 0.8950 g/ml	
VAPOR DENSITY: (AIR=1) at BP 2.2 at 77°F (25°C)	PERCENT VOLATILE BY VOLUME: 100	
SOLUBILITY IN WATER:	SOLUABLE IN WATER AT CONCENTRATIONS OF 0.57g/108g WATER AT 68°F (20°C)	
APPEARANCE AND ODOR:	COLORLESS LIQUID WITH A PUNGENT, ETHER-LIKE ODOR, LIQUID IS WATER WHITE	

IV. FIRE AND EXPLOSION HAZARDS

FLASH POINT(METHOD USED): -45°F(-42.8°C) OC I -58°F(-50°C) CC	AUTO-IGNITION TEMPERATURE: 966°F (519°C)
FLAMMABLE OR EXPLOSIVE LIMITS IN AIR BY % VOLUME:	LOWER: 3.8 UPPER: 15.4
EXTINGUISHING MEDIA: DRY CHEMICAL OR CARBON DIOXIDE FOR SMALL FIRES	ELECTRICAL CLASSIFICATION : Group C. NFPA No. 70
SPECIAL FIREFIGHTING PROCEDURES: STOP FLOW OF GAS. FROM A SAFE DISTANCE, USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. ALLOW FIRE TO BURN ITSELF OUT. USE A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. RESCUE PERSONNEL SHOULD AVOID UNNECESSARY EXPOSURE.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: UPON COMBUSTION, ETHYL CHLORIDE FORMS TOXIC GASES SUCH AS HYDROGEN CHLORIDE, CARBON DIOXIDE AND TRACES OF PHOSGENE. EXTREME HAZARD OF FIRE OR EXPLOSION MAY RESULT FROM STATIC ELECTRIC DISCHARGE OR OTHER IGNITION SOURCES. VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASHBACK. VAPOR MAY EXPLODE IF IGNITED IN ENCLOSED AREAS.	

