

ETHANOL

CHEMS 7900

MATERIAL SAFETY

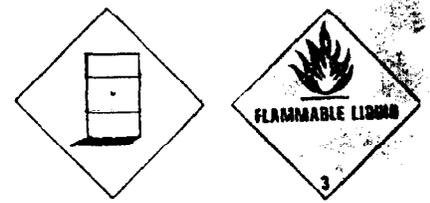
I IDENTIFICATION

MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.
ADDRESS (Number, Street, City, State, and ZIP Code)		CAS NUMBER 46-17-5
CHEMICAL NAME AND SYNONYMS ETHANOL, 190 PROOF -Ethyl Alcohol, 190 Proof		TRADE NAME AND SYNONYMS
CHEMICAL FAMILY Alcohols	FORMULA C ₂ H ₅ OH	

II CHEMSAFE™ INSTRUCTIONAL* CLASSIFICATION

Affix Appropriate Chemsafe™ Instructional Classification Label

*Refer to CHEMSAFE™ instructional booklets for data regarding the properties, appropriate safe use and storage, and emergency response for this class of substance.



III HAZARDOUS INGREDIENTS

INGREDIENT NAME	%	TLV AND SOURCE (units)	INGREDIENT NAME	%	TLV AND SOURCE (units)
1. Ethyl Alcohol	ca 95	1000ppm. ACGIH OSHA	4.		
2.			5.		
3.			6.		

IV PHYSICAL DATA

Boiling Point at 760 mm Hg	78.2°C (172.8°F.)	Specific Gravity (H ₂ O = 1) at 20/20°C	0.8038
Vapor Pressure (mm Hg at -20°C)	43 mm. Hg	Percent Volatile By Volume (%)	100
Vapor Density (Air = 1)	1.6	Evaporation Rate (Butyl Acetate = 1)	3.2
Solubility In Water (% by Weight)	Complete	Melting Point (°F.)	-173°F

Appearance and Odor Water-white liquid; characteristic odor

V FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits in Air (% by Volume)	Lower (LeL)	Upper (UeL)
62°F, tag closed cup		3.3	19.0

Extinguishing Media Use carbon dioxide or dry chemical for small fires. Use alcohol-type foam for large fires. Addition of water (fog) will aid in reducing burning rate.

Fire Fighting Procedures
None

Fire and Explosion Hazards
None

VI LOCATIONS USED AND STORED (Completed By User)

Locations Used

Locations Stored

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VII HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV) AND SOURCE

1,000 ppm - ACGIH (1975) and OSHA - CFR 29 - 1000 Table G.1, 1900 mg/m³

EFFECTS OF OVEREXPOSURE Swallowing liquid causes inebriation, headache, nausea, and vomiting.
 Liquid causes eye irritation. Breathing of vapors may cause drowsiness.

EMERGENCY FIRST AID PROCEDURES

Flush skin and eye contact with plenty of water. If inhaled, remove to fresh air; give artificial respiration if breathing has stopped. Call a physician. If swallowed, induce vomiting.

VIII REACTIVITY DATA

UNSTABLE STABLE CONDITIONS TO AVOID
 Avoid heat, sparks, and fire.

INCOMPATIBILITY (MATERIALS TO AVOID)
 None

HAZARDOUS DECOMPOSITION PRODUCTS
 Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR CONDITIONS TO AVOID
 None

IX SPILL OR LEAK PROCEDURES

PROCEDURES TO CONTAIN AND CLEAN UP LEAKS AND SPILLS

Eliminate all sources of ignition. Small spills should be flushed with large quantities of water. Larger spills should be collected for disposal. Call x 3131 FOR LARGE SPILL.

REPORTING PROCEDURE
 Notify supervisor.

WASTE DISPOSAL METHOD

Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations. Call E+S Group x 4498

X PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) I.H TO MAXIMATOR; NUISANCE LEVEL = 3M8709 or H.K.K. Disposable
~~supplied mask in confined areas~~

VENTILATION	LOCAL EXHAUST Preferable	SPECIAL
	MECHANICAL (GENERAL) Acceptable	OTHER

PROTECTIVE GLOVES Plastic LATEX RUBBER EYE PROTECTION Goggles

OTHER PROTECTIVE EQUIPMENT AND CLOTHING
 Safety shower and eye bath.

XI SPECIAL PRECAUTIONS

HANDLING AND STORAGE CONDITIONS

Keep away from heat, sparks, and open flame. Keep container closed. Use with adequate ventilation.

OTHER

XII INFORMATION SUBMITTED BY

NAME	DATE 2/83
COMPANY	SOURCES OSHA, NFPA, ACGIH

CONTINUATION/NOTES