800-558-9595

MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL OSHA requires that this form be kept on file.

Product No. KM 172 M

Product Name ETHER ANHYDROUS

*Ethyl Alcohol C.A.S. # (64-17-5) *Ethyl Ether C.A.S. # (60-29-7) Principal Hazardous Component(s) (-)

25

0.05

400 ppm

400 ppm

Chemical Synonyms C.A.S. No. Formula >99% 3 60-29-7 Diethyl Ether 400 ppm P.E.L. ことなる。 Health Hazard 2 Flammability Reactivity | 2 400 ppm **FLV Units** 4 1

* chemical subject to the
the reporting
requirements of SARA Title III.

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Melting Point (*F)	-123°C (-190°F)	Specific Gravity (H ₂ O=1) 0.71	0.71
Boiling Point (°F)	35°C (95°F)	Percent Volatile by Volume (%)	
Vapor Pressure (mm Hg) 422 @ 20°C (68°F)	422 @ 20°C (68°F)	Evaporation Rate (Bu Ac =1)	ate =1) 37.5
Vapor Density (Air=1) 2.6	2.6		

Appearance & Odor	Solubility in Water	
Colorless liquid with sweet, etheral odor.	7.5 gm/100gm water @ 20°C	

Flash Point (Method Used)	SECTION
-45°C (-49°F) (closed cup)	
able Limit olume	

Lower

Upper 36.0

1.9

Extinguisher Dry chemical, foam or carbon dioxide.

Special Firefighting Procedures

above. May form explosive peroxides on long standing or after exposure to air or situation. Water spray may be used to keep fire exposed containers cool Above flash point, vapor-air mixtures are explosive within flammable limits noted light. Dry chemical, foam or carbon dioxide. Treat as a flammable gas in a fire

Unusual Fire and Explosion Hazards

surfaces, and all sources of late and ignition. Vapors can flow along surfaces to distant pressure mode. This highly flammable liquid must be kept from sparks, open flame, not breathing apparatus with full facepiece operated in the pressure demand or other positive In the event of a fire, wear full protective clothing and NIOSH-approved self-contained ignition source and flash back

400 ppm (TWA) 500 (STEL)

THE THINK THE

Effects of Overexposure

Inhalation: General anesthesia by inhalation can occur. Continued exposure may lead to respiratory for death. Early symptoms include irritation of nose and throat, vomiting, and irregular respiration, folic by dizziness, drowsiness, and unconsciousness. Ingestion: Ingestion of 1 or 2 ounces may be fatal. So contact: Can cause demailties on prolonged exposure. Chronic Exposure: Prolonged exposures may result in headache, drowsiness, excitation, and psychic disturbances.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: If swallowed, induce vomiting immediately by giving two glasses water and sticking finger down throat. We anything by month to an unconscious person. Call physician immediately. Skin contact: Remove any contaminated clothing. Wash skin with plent of at least 15 minutes. If irritation develops, get medical attention. Eye contact: Wash eyes with plent water for at least 15 minutes. Call a physician.

May Depreciation Conditions to Avoid May Decur None Known Occur None Known None Known Steps to be Taken in Case Material is Released Remove all sources of ignition; ventila	Hazardous To Decomposition Products in	Incompatibility (Materials to Avoid)	Stability Col
Hazardous Polymerization Conditions to Avoid May Will Not None Known Occur Occur None Known Steps to be Taken in Case Material is Released or Spilled Remove all sources of ignition; ventilate area of leak or spill.	Toxic gases and vapors such as carbon monoxide may be released in a fire.	Can react dangerously with acetyl chloride, liquid air, bromoazide, chlori and strong oxidizers such as nitrates.	Stability Conditions to Avoid Heat, light, and long standing contribute to instability. Reacts with air to lexplosive peroxides.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size que Spills may be collected as RCRA hazardous waste and dissolved in an alcohol of greater molecular weight than butyl alcohol, then alto in a suitable combustion chamber. This substance should not be flushed to sewer because of the possibility of an explosion.

SECTION VIII	SEEDING HOLESTONA TVENES	OTHE			
Respiration Protection (Specify Type)	Respirator				
Votellos	Local Exhaust			Special	Explosion Proof Exhau
Ventualion	Meghanicai (Generai)			Other	
Protective Gloves	Latex		Eye Protection	ction	Chemical Safety Go
Other Protective Equipment	Clean body-covering, non static producing clothing.	vering, nor	static pr	oducin	g clothing.
SECTION IX SPECIAL PRECAUTIONS	SPECIAL PI	HOAVI			
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Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separa oxidizing materials. Storage and use areas should be No Smoking areas. Isolate from other combustible material. Protect from dire

Other Precautions

Read label on container before using. Do not weer contact lenses when working with chemicals.

Protect against static electricity and lighthing for large quantity storage rooms, protect with automatic sprinkler systems and total floo carbon dioxide systems. DO NOT OPEN unless contents are at room temperature (72°F) or below.

Approved by Steven C. Quandt Effective Date 11/11/94 For laboratory use only. Not for d household use. Keep out of read

D.O.T. Diethyl ether, 3, UN1155,