Section 1 - Chemical Product and Company Identification

MSDS Name: 1-Ethoxy-2-propanol, 90-95%, remainder 2-ethoxy-1-propanol
Catalog Numbers: AC259050000, AC259050010, AC259050025, NC9360872, NC9361271, XXAC25905-205L, XXAC25905-25L
Synonyms:
Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 201-796-7100
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 1569-02-4
Chemical Name: 1-Ethoxy-2-propanol, 90-95%, remainder 2-ethoxy-1-propanol
%: 90-95%
EINECS#: 216-374-5

Hazard Symbols: XI

Risk Phrases: 10 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Warning! Flammable liquid and vapor. Causes eye, skin, and respiratory tract irritation. Target Organs:
Respiratory system, eyes, skin.
Potential Health Effects
Eye: Causes eye irritation. Contact produces irritation, tearing, and burning pain. Lachrymator (substance which increases the flow of tears).
Skin: Causes skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: Causes respiratory tract irritation.
Chronic:

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear.
Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid. Can form explosive mixtures at temperatures above the flashpoint.

Extinguishing Media:
- Autoignition: 255 deg C (491.00 deg F)
- Temperature:
- Flash Point: 42 deg C (107.60 deg F)
- Explosion Limits: Not available
  - Lower:
  - Upper:
- NFPA Rating: Health: ; Flammability: 2; Instability: ;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Remove all sources of ignition. Use a spark-proof tool.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks and flame.

Storage: Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
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<tr>
<td>1-Ethoxy-2-propanol</td>
<td>none listed</td>
<td>none listed</td>
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<tr>
<td>90-95%, remainder</td>
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<td>2-Ethoxy-1-propanol</td>
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</table>

OSHA Vacated PELs: 1-Ethoxy-2-propanol, 90-95%, remainder 2-ethoxy-1-propanol: None listed

Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Color:** clear, colorless  
**Odor:** Not available  
**pH:** Not available  
**Vapor Pressure:** 5.3 mbar @ 20 deg C  
**Vapor Density:** 3.59 (air=1)  
**Evaporation Rate:** Not available  
**Viscosity:** 2.08 cP 20 deg C  
**Boiling Point:** 132 deg C @ 760.00mm Hg (269.60°F)  
**Freezing/Melting Point:** -100 deg C (-148.00°F)  
**Decomposition Temperature:** Not available  
**Solubility in water:** soluble in water  
**Specific Gravity/Density:** .8960g/cm3  
**Molecular Formula:** C5H12O2  
**Molecular Weight:** 104.14

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Light, exposure to air, temperatures above 40°C.  
**Incompatibilities with Other Materials** Not available  
**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization** Will not occur.

Section 11 - Toxicological Information

**RTECS#:** CAS# 1569-02-4: UB5250000  
**LD50/LC50:**  
**CAS# 1569-02-4:** Draize test, rabbit, eye: 100 mg/24H Moderate; Inhalation, rat: LC50 = >10000 ppm/4H; Oral, rat: LD50 = 4400 mg/kg; Oral, rat: LD50 = 7000 mg/kg; Skin, rabbit: LD50 = 8100 mg/kg;  
**Carcinogenicity:** 1-Ethoxy-2-propanol, 90-95%, remainder 2-ethoxy-1-propanol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Epidemiology:** Not available  
**Teratogenicity:** Not available  
**Reproductive:** Not available  
**Neurotoxicity:** Not available  
**Mutagenicity:** Not available  
**Other:** Not available

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.
Section 14 - Transport Information

US DOT
Shipping Name: ETHERS, N.O.S.
Hazard Class: 3
UN Number: UN3271
Packing Group: III
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal
TSCA
CAS# 1569-02-4 is not listed on the TSCA Inventory. It is for research and development use only.

Health & Safety Reporting
List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.

Section 313
None of the chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
STATE
1-Ethoxy-2-propanol, 90-95%, remainder 2-ethoxy-1-propanol is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65
California No Significant Risk Level:
None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
   Hazard Symbols: XI
   Risk Phrases:
      R 10 Flammable.
      R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
   S 16 Keep away from sources of ignition - No smoking.
   S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
   CAS# 1569-02-4: 1

Canada
   CAS# 1569-02-4 is listed on Canada's DSL List
   Canadian WHMIS Classifications: B3, D2B
   This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
   CAS# 1569-02-4 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

   MSDS Creation Date: 9/02/1997
   Revision #3 Date 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.