

DATE: 02/03/05 ACCT: 085511001
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**** MATERIAL SAFETY DATA SHEET ****

Poly(Ethylene Glycol), Average M.W. 8000
01226

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Poly(Ethylene Glycol), Average M.W. 8000

Catalog Numbers:
AC418050000, AC418050010, AC418050030, AC418050050, AC9857197, XXAC41805-10

Synonyms:
Aquaaffin; Ethylene Polyoxide; Mycoline.

Company Identification: Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410

For information, call: 201-796-7100

Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
25322-68-3	Poly(oxy-1,2-ethanediyl), .alpha.-hydro	100	unlisted

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: not available solid.

Caution! Hygroscopic (absorbs moisture from the air). This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health Effects

Eye: May cause mild eye irritation.

Skin: May cause mild skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic: No information found.

**** 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. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

**** 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Extinguishing Media: For large fires, use water spray, fog or regular foam. Cool containers with flooding quantities of water until well after fire is out. For small fires, use dry chemical or carbon dioxide.

Autoignition Temperature: Not applicable.

Flash Point: 199 deg C (390.20 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

NFPA Rating: (estimated) Health: 0; Flammability: 1; Instability: 0

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**** 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Wash clothing before reuse.

Storage:

Store in a tightly closed container. Store in a cool, dry area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Poly(oxy-1,2-ethane diyl), .alpha.-hydro-.omega.-hydroxy-	none listed	none listed	none listed

OSHA Vacated PELs:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-:
No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate gloves to prevent skin exposure.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Color: not available
Odor: characteristic odor
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: 25-32 cSt. @98C
Boiling Point: Not available.
Freezing/Melting Point: 44-48C
Decomposition Temperature: Not available.
Solubility in water: Soluble in water
Specific Gravity/Density: 1.15
Molecular Formula: C2H6O2-n
Molecular Weight: Not available.

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials:

Strong oxidizing agents.

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Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 25322-68-3: TQ3500000 TQ3520000 TQ3560000 TQ3580000
TQ3600000 TQ3610000 TQ3620000 TQ3630000 TQ3650000
TQ3675000 TQ3700000 TQ3800000 TQ3850000 TQ4025000
TQ4026000 TQ4027000 TQ4028000 TQ4030000 TQ4040000
TQ4041000 TQ4050000 TQ4070000 TQ4100000 TQ4105000
TQ4110000 TQ4950000 TQ5090000 TR1579850 ZD2465300

LD50/LC50:

CAS# 25322-68-3: Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, eye: 100 uL Mild; Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, eye: 500 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Draize test, mouse: LD50 = 31 gm/kg; Oral, mouse: LD50 = 28915 mg/kg; Oral, mouse: LD50 = 36 gm/kg; Oral, rabbit: LD50 = 17300 mg/kg; Oral, rabbit: LD50 = 76 gm/kg; Oral, rabbit: LD50 = 14 gm/kg; Oral, rabbit: LD50 = 17300 mg/kg; Oral, rabbit: LD50 = 26800 mg/kg; Oral, rabbit: LD50 = 19 gm/kg; Oral, rabbit: LD50 = 28900 mg/kg; Oral, rabbit: LD50 = 76 gm/kg; Oral, rat: LD50 = 28 gm/kg; Oral, rat: LD50 = 31640 mg/kg;

Carcinogenicity:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other Studies:

No data available.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Fish: Goldfish: LC50 = >5000 mg/L; 24 Hr.; Unspecified Bacteria:
Phytobacterium phosphoreum: EC50 = 100,000 mg/L; 15 minutes; Microtox
test: The product is chemically identical to the natural amino acid
L-Serine and can therefore be degraded microbiologically.

**** 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

No information available

Canadian TDG

No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL

TSCA

CAS# 25322-68-3 is listed on the TSCA inventory.

Health & Safety Reporting List

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

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

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.

SARA

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.

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SARA Codes

CAS # 25322-68-3.

Section 313

No 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 depleters.

This material does not contain any Class 2 Ozone depleters.

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:

None of the chemicals in this product are considered highly hazardous

by OSHA.

STATE

Poly(oxy-1,2-ethanediyl), .alpha. can be found on the following state

right to know lists: Minnesota.

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: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 25322-68-3: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 25322-68-3 is listed on Canada's DSL List.

This product has a WHMIS classification of Not controlled..

CAS# 25322-68-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/01/1999 Revision #2 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 way 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.