

SAFETY DATA SHEET

ENVIROPEG™ E4000

COMPANY INFORMATION

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SECTION 1 – PRODUCT INFORMATION

Product Name: ENVIROPEG™ E4000
Common Chemical Name: POLY (OXY, 1-2 ETHANEDIYL), ALPHA, HYDRO, OMEGA, HYDROXY
Synonyms: PEG 4000
Molecular Formula: H-(OCH₂CH₂)_n-OH
Chemical Family: Polyethylene Glycols
Average Molecular Wt.: 4000 g/mol.

SECTION 2 – HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product:
No need for classification according to GHS criteria for this product.

Label elements:
The product does not require a hazard warning label in accordance with GHS criteria.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
25322-68-3	100%	Polyethylene Glycol

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.

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Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed**Indication of any immediate medical attention and special treatment needed****Note to physician:** Treatment

Treat accordingly to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5 – FIRE-FIGHTING MEASURES**Extinguishing Media:**

Water spray, dry powder, carbon dioxide, foam

Special hazards arising from the substance or mixture:

No particular hazards known.

Advice for fire-fighters:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear

SECTION 6 – ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Use personal protective clothing:

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods and material for contaminated cleaning up: For small amounts

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

Methods and material for contaminated cleaning up: For large amounts

Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

SECTION 7 – HANDLING AND STORAGE**Precautions for safe handling****Conditions for safe storage, including and incompatibilities:**

No special precautions necessary.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**Advice on system design:**

Provide local exhaust ventilation at elevated temperatures.

SAFETY DATA SHEET**ENVIROPEG™ E4000****Personal protective equipment****Hand protection:**

Chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industry hygiene and safety practice. Remove contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid	
Color:	White	
Odor:	Mild	
pH value:	4.5 / 7.5	(5% in aqueous solution @ 25°C)
Freezing point:	55 (131)	(°C (°F))
Boiling point:	>200°C	
Flash point:	>200°C	(ASTM D92)
Vapor pressure:	N/A	
Specific Gravity:	1.224	@ 25°C
Density:	N/A	
Viscosity:	110.0 / 131.0	(cSt @ 98.9°C)
Solubility in water:	55%	@ 25°C

SECTION 10 – STABILITY AND REACTIVITY**Reactivity:** Corrosion to metals:

No corrosive effect on metal.

Chemical stability**Possibility of hazardous reactions:**

The product is chemically stable.

Conditions to avoid:

No conditions known that should be avoided.

Incompatible materials:

No data available.

Hazardous decomposition products:

No hazardous decomposition products known.

SECTION 11 – TOXICOLOGY INFORMATION**Primary routes of exposure:**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects**Oral**

Type of value: LD50

Species: rat

Value: >2,000 mg/kg

SAFETY DATA SHEET**ENVIROPEG™ E4000**Skin

Species: rabbit
Result: non-irritant
Value: internal

Eye

Species: rabbit
Result: non-irritant
Value: internal

Chronic Toxicity/EffectsOther information

This statement was derived from products of similar composition.

Symptoms of Exposure**Medical conditions aggravated by overexposure**

Data available does not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity**Toxicity to fish

LC50 (96h) > 100 mg/l, *Leuciscus idus*
Analogous: Assessment derived from products with similar chemical character.

Microorganisms/Effect on activated sludgeToxicity to microorganisms

DEL-L2: > 5,000 mg/l
Analogous: Assessment derived from products with similar chemical character.

Persistence and degradabilityElimination information

>70% DOC reduction (20 d) (OECD 301 A (new version)) Readily biodegradable

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste disposal of substance:**

Dispose of in accordance with national, state, and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Recommended crushing, puncturing or other means to prevent unauthorized use of used containers.
Dispose of in accordance with national, state and local regulations.

RCRA: NA

SECTION 14 – TRANSPORT INFORMATION**DOT**

Not classified as dangerous goods under transportation regulations.

TDG

Not classified as dangerous goods under transportation regulations.

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IMDG

Not classified as dangerous goods under transportation regulations.

IATA

Not classified as dangerous goods under transportation regulations.

Additional Information:

No additional information available.

SECTION 15 – REGULATORY INFORMATION
Federal Regulations
According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200
Emergency overview:
CAUTION:

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Contact with the eyes or skin may cause mechanical irritation

Avoid contact with skin, eyes and clothing.

Avoid inhalation of mists/vapors.

Use with local exhaust ventilation.

Wear NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

Wear protective clothing

Wear NIOSH-certified (or equivalent) organic vapor/particulate respirator

EPCRA 311/312 (Hazard categories):

Not hazardous

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical Name</u>
N/A	N/A	N/A
N/A	N/A	N/A

State Regulations
CA Prop. 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Hazard Ratings

Normally Environmental Fluids uses Paintings and Coverings Association valuation method. The use of an asterisk (*) indicates the potential of health effect in the NFPA valuation.

NFPA Hazard codes:

Health: 1 Fire: 0 Reactivity: 0 Special: N/A

HMIS III rating:

Health: 1 Flammability: 0 Physical hazard: 0

Inventory Statement:

Country	Regulatory List	Statement
USA	TSCA	Listed on Inventory
Canada	DSL	Listed on Inventory
EU	EINECS	Listed on Inventory
China	SEPA	Listed on Inventory

SAFETY DATA SHEET**ENVIROPEG™ E4000****SECTION 16 – OTHER INFORMATION****SDS Prepared by:**

Environmental Fluids USA Product Regulations

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