



## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Polyethylene Glycol 3350
CAS number	25322-68-3
Synonyms	PEG 3350

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses            Drug, cosmetic/personal care, or indirect food applications.

#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### 2.2 GHS Label elements, including precautionary statements

None required.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

### SECTION 3: Composition/information on ingredients

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Polyethylene glycol	PEG	25322-68-3	98.5-99.5%

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

##### General advice

**If inhaled** Move person to fresh air; if effects occur, consult a physician.

**In case of skin contact** Wash off with plenty of water.

**In case of eye contact** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**If swallowed** No emergency medical treatment necessary.

#### 4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Absorption may be promoted by damaged skin. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**Unsuitable extinguishing media**

Do not use direct water stream. May spread fire.

**5.2 Specific hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

**5.3 Special protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**5.4 Further information****Flash Point** closed cup- 246 °C / 475 °F (ASTM D 93)**Autoignition Temperature** No information available.**Explosion limits****Upper** No information available.**Lower** No information available.**Sensitivity to Mechanical Impact** No information available.**Sensitivity to Static Discharge** No information available.**NFPA**

Health	Flammability	Instability	Physical hazards
0	1	0	N/A

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**6.3 Methods and materials for containment and cleaning up**

Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

**6.4 Reference to other sections**

See Section 2 for full list of hazard and precaution statements.

**SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

### Precautions on safe handling

Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Good housekeeping and controlling of dusts are necessary for safe handling of product. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Store in original container. Use product promptly after opening. Avoid prolonged exposure to heat and air. Store in the following material(s): Stainless steel. Polypropylene. Polyethylene-lined container. Teflon. Glass-lined container. Plasite 3066 lined container. Plasite 3070 lined container. 316 stainless steel.

### Incompatibilities

Strong acids. Strong bases. Strong oxidizers.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 8.2 Exposure controls

#### Appropriate engineering controls

None under normal use conditions.

#### Personal protective equipment

##### Eye/face protection

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 protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. If hands are cut or scratched, use gloves chemically resistant to this material even for brief exposures.

##### Body Protection

When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions.

#### **Control of environmental exposure**

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical State	Solid
Appearance	White
Odor	Mild
Odor Threshold	No information available.
pH	4.5 - 7.5 5% aq. sol. (ASTM E70)
Melting Point/Range	53 - 57 °C / 127 - 135 °F
Boiling Point/Range	> 200 °C / > 392 °F
Evaporation Rate	Not applicable.
Flammability (solid)	Not expected to form explosive dust-air mixtures.
Flammability or explosive limit	
Upper	No information available.
Lower	No information available.
Vapor Pressure	< 0.01 mmHg at 20 °C / 68 °F (ASTM E1719)
Vapor Density	> 10
Density	1.111 @ 60 °C / 140 °F
Solubility	67 % at 20 °C / 68 °F
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	76 - 110 cSt at 98.9 °C / 210.0 °F (ASTM D 445)
Molecular Formula	HO-[CH <sub>2</sub> CH <sub>2</sub> O] <sub>n</sub> -H
Molecular Weight	3015 - 3685 g/mol
VOC Content(%)	No information available.
Oxidizing properties	No information available.

### **9.2 Other safety information**

No information available.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

None known, based on information available.

## 10.2 Chemical stability

Stable under normal conditons.

## 10.3 Possibility of hazardous reactions

None under normal processing.

## 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat.

## 10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

## 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene glycol	> 10000 mg/kg (rat)	> 20000 mg/kg (rabbit)	> 2.5 mg/L (rat)

##### Skin corrosion/irritation

Prolonged exposure not likely to cause significant skin irritation.  
May cause more severe response if skin is abraded (scratched or cut).

##### Serious eye damage/eye irritation

May cause slight temporary eye irritation.  
Corneal injury is unlikely.

##### Respiratory or skin sensitization

Did not cause allergic skin reactions when tested in humans.

##### Germ cell mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

##### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Polyethylene glycol	25322-68-3	Not listed	Not listed	Not listed	Not listed	Not listed

##### Specific target organ toxicity - single exposure

None known.

##### Specific target organ toxicity - repeated exposure

None known.

### Reproductive toxicity

In animal studies, did not interfere with reproduction.

### Chronic effects

No information available.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product		Species	Test Results	
Polyethylene glycol	EC50	Scenedesmus subspicatus	> 100 mg/L	96 h
	LC50	Poecilia reticulata	> 100 mg/L	96 h
	EC50	Daphnia magna	> 100 mg/L	48 h

### 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Pass

Biodegradation: 90 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

### 12.3 Bio accumulative potential

No bioconcentration is expected because of the relatively high water solubility.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### **DOT (US)**

Not regulated.

### **IMDG**

Not regulated.

### **IATA**

Not regulated.

## SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### **SARA 304 Emergency release notification**

Not regulated.

### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

#### **SARA 302 Extremely hazardous substance**

Not listed.

#### **SARA 311/312 Hazardous**

See section 2 for more information.

#### **SARA 313 (TRI reporting)**

Not regulated.

### **Other federal regulations**

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.



**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.