

# **SAFETY DATA SHEET**

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

### 1.1 Product identifiers

Product name Triethylene glycol

CAS number 112-27-6

Synonyms TEG; Trigen; Triglycol

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

Identified uses Laboratory chemicals.

### 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.

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# 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	
Triethylene glycol	TEG; Trigen; Triglycol	112-27-6	>95%	

### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

General advice

**If inhaled** Remove to fresh air. Get medical attention immediately if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention immediately if symptoms occur.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

None reasonably foreseeable.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

**Unsuitable extinguishing media**No information available.

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# 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.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

# 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** 165 °C / 329 °F

**Autoignition Temperature** 371 °C / 699.8 °F

**Explosion limits** 

**Upper** 9.2 vol % **Lower** 9.2 vol %

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards	
1	1	1	N/A	

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

### 6.2 Environmental precautions

Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

### 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

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Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes, or clothing.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

# Incompatibilities

Strong oxidizing agents.

### **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

Wear appropriate protective gloves and clothing to prevent skin exposure.

### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

### Respiratory protection

No protective equipment is needed under normal use conditions.

### Control of environmental exposure

No information available.

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

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# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Light yellow
Odor Slight

Odor Threshold No information available No information available

Melting Point/Range -7 °C / 19.4 °F Boiling Point/Range 285 °C / 545 °F

Evaporation Rate < 0.001
Flammability (solid) Not applicable

Flammability or explosive limit

Upper 9.2 vol % Lower 0.9 vol %

Vapor Pressure <0.01 mbar @ 20 °C

Vapor Density 5.17 Density 1.12

Solubility Soluble in water
Partition coefficient: No data available

n-octanol/water

Autoignition Temp 371 °C / 699.8 °F

Decomposition Temp No information available Viscosity 48 mPa.s @ 20 °C

Molecular Formula C6 H14 O4
Molecular Weight 150.17 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

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

# 10.1 Reactivity

No information available.

# 10.2 Chemical stability

Hygroscopic.

# 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Exposure to moist air or water.

### 10.5 Incompatible materials

Strong oxidizing agents.

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# 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2).

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Product Information, Component Information**

**Acute toxicity** 

Component		LD50 Oral	LD50 Dermal	LC50 Inhalation	
	Triethylene glycol	17 g/kg (Rat)	> 20 mL/kg (Rabbit)	5.2 mg/L (Rat) 4h	

### Skin corrosion/irritation

No information available.

### Serious eye damage/eye irritation

No information available.

### Respiratory or skin sensitization

No information available.

### Germ cell mutagenicity

No information available.

Carcinogenicity

- an enre germent						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Triethylene glycol	112-27-6	Not listed				

### Specific target organ toxicity - single exposure

None known.

### Specific target organ toxicity - repeated exposure

None known.

# Reproductive toxicity

No information available.

### **Chronic effects**

No information available.

### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

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# 12.1 Toxicity

Product		Species	Test Results
Triethylene glycol	LC50	Lepomis macrochirus	10000 mg/L, 96h static 61000 mg/L, 96h flow- through
	LC50	Pimephales promelas	56200 - 63700 mg/L, 96h flow-through
	EC50	Microtox	850 mg/L, 5 min
	EC50	Water Flea	42426 mg/L, 48h

# 12.2 Persistence and degradability

Persistence is unlikely.

# 12.3 Bio accumulative potential

No information available.

### 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.

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# **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 applicable.

# **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.

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

Listed, Triethylene glycol (CAS #112-27-6).

# **California Proposition 65**

Not listed.

# **SECTION 16: Other information**

Issue date: 11/17/2020 Revision 1: 02/10/2025

### **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.

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