

# **SAFETY DATA SHEET**

Creation Date 17-Nov-2009 Revision Date 17-Nov-2020 Revision Number 4

1. Identification

Product Name Triethylene glycol

Cat No. : C8383, C8382

CAS-No 112-27-6

Synonyms TEG; Trigen; Triglycol (Laboratory)

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669

Tel.: 512-668-9918

### **Emergency Telephone Number**

InfoTrac: 800-535-5053

# 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

#### Label Elements

None required

### Hazards not otherwise classified (HNOC)

None identified

$\sim$	<u> </u>	111 /1 - 6	Company of the Compan	The second of the second of
- 33	Compos	ition/Intorn	nation on	Ingredients

Component	CAS-No	Weight %
-----------	--------	----------

Triethylene glycol	112-27-6	>99

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

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

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 165 °C / 329 °F

Method - No information available

Autoignition Temperature 371 °C / 699.8 °F

**Explosion Limits** 

**Upper** 9.2 vol % **Lower** 9.9 vol %

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

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 (CO<sub>2</sub>).

### **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.

NFPA

HealthFlammabilityInstabilityPhysical hazards111N/A

### 6. Accidental release measures

**Personal Precautions**Use personal protective equipment as required. Ensure adequate ventilation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal.

Up

### 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

contact with skin, eyes or clothing. Avoid ingestion and inhalation.

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

moisture.

## 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** None under normal use conditions.

**Personal Protective Equipment** 

**Eve/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 and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

Physical StateLiquidAppearanceLight yellowOdorSlight

Odor Threshold No information available

 Boiling Point/Range
 285 °C / 545 °F

 Flash Point
 165 °C / 329 °F

Evaporation Rate < 0.001 Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper 9.2 vol % Lower 9.9 vol %

Vapor Pressure <0.01 mbar @ 20 °C

Vapor Density 5.17 Specific Gravity 1.120

Solubility
Soluble in water
Partition coefficient; n-octanol/water
Autoignition Temperature
Soluble in water
No data available
371 °C / 699.8 °F

Decomposition TemperatureNo information availableViscosity48 mPa.s @ 20 °C

Molecular Formula C6 H14 O4
Molecular Weight 150.17

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

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

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

#### **Acute Toxicity**

#### **Product Information**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethylene glycol	LD50 = 17 g/kg (Rat)	LD50 > 20 mL/kg (Rabbit)	LC50 > 3.9 mg/L (Rat) 4 h

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	l
Triethylene glycol	112-27-6	Not listed	l				

Mutagenic Effects No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Triethylene glycol	Not listed	LC50: = 61000 mg/L, 96h	EC50 = 850 mg/L 5 min	EC50: 42426 mg/L/48h
		flow-through (Lepomis	_	_
		macrochirus)		
		LC50: = 10000 mg/L, 96h		

	static (Lepomis macrochirus)	
	LC50: 56200 - 63700 mg/L,	
	96h flow-through	
	(Pimephales promelas)	

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

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

Component	log Pow
Triethylene glycol	-1.98

# 13. Disposal considerations

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.

14	Transport	information
	Hallsport	II II OI II I I I I I I I I I I I I I I

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

### **United States of America Inventory**

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Triethylene glycol	112-27-6	X	ACTIVE	-

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Triethylene glycol	112-27-6	Х	-	203-953-2	Х	X	Х	Х	KE-13201

#### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

Revision Date 17-Nov-2020 Triethylene glycol

**CERCLA** Not applicable

This product does not contain any Proposition 65 chemicals. **California Proposition 65** 

## U.S. State Right-to-Know

Regulations

Component	Component Massachusetts New Jersey		Pennsylvania	Illinois	Rhode Island
Triethylene glycol	-	-	X	-	X

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

### U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Slight risk, Grade 1

### 16. Other information

Regulatory Affairs Lab Alley LLC **Prepared By** 

Email: customerservice@laballey.com

**Creation Date** 17-Nov-2009 17-Nov-2020 **Revision Date** 17-Nov-2020 **Print Date** 

This document has been updated to comply with the US OSHA HazCom 2012 Standard **Revision Summary** 

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

### End of SDS