

# Safety Data Sheet

Triethylene Glycol

## SECTION I - IDENTIFICATION



Transchem, Inc.  
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Carlsbad, CA 92011  
(800) 783-2436  
Chemtel Emergency Response :. (800) 255-3924

PRODUCT NUMBER: ..... TEG  
PRODUCT NAME: ..... Triethylene Glycol  
CHEMICAL FAMILY: .....  
CAS NUMBER: ..... 112-27-6  
DATE PREPARED: ..... 9/10/2009  
REVISION NUMBER: ..... 5/29/2014

## SECTION II - HAZARDOUS IDENTIFICATION

### GHS CLASSIFICATION:

#### Classification

Acute Toxicity, Oral	Category 4
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2B
Specific target organ toxicity, single exposure, R	Category 3
Specific target organ toxicity, repeated exposure	Category 2

### WARNING!

#### GHS LABEL:



#### Hazard Statements

H302	Harmful if swallowed
H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H373	Causes damage to organs through prolonged or repeated exposure

# Safety Data Sheet

## Triethylene Glycol

### Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P312	Call a POISON CENTER or a doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P332+313	If skin irritation occurs: get medical advice/attention.
P337+313	If eye irritation persists get medical advice/attention.
P403+233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

### **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Diethylene Glycol	111-46-6	5%	Not Established	Not Established
Triethylene Glycol	112-27-6	95%	Not Established	Not Established

### **SECTION IV - FIRST AID MEASURES**

**Contact with eyes:** Flush with water for 15 minutes. Seek immediate medical attention.

**Skin contact:** Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

**Inhalation:** Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention if symptoms persist.

## Safety Data Sheet

### Triethylene Glycol

**Ingestion:** If swallowed. Seek immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel or a poison control center.  
Give large quantities of water. Never give anything by mouth to an unconscious person.

#### SECTION V - FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog, foam, CO<sub>2</sub>, dry chemical.

**Special Fire Fighting Procedures** Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

**Unusual Fire Fighting Hazards:** Avoid possible spontaneous combustion by proper disposal.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Evacuate all unprotected personnel from the area.

**Environmental Precautions:** Prevent liquid from entering drains, sewers, waterways, ground and surface water or soil.  
Contain spill if it can be done with minimal risk.  
Notify proper authorities.

**Methods for Cleaning Up:** Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

#### SECTION VII - HANDLING AND STORAGE

**Handling and Storage:**

- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
- Keep containers tightly closed when not in use.
- Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
- NFPA Class III B storage.
- Do not redistribute empty containers.

#### SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

##### EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Diethylene Glycol	111-46-6	Not Established	Not Established
Triethylene Glycol	112-27-6	Not Established	Not Established

## Safety Data Sheet

### Triethylene Glycol

**Engineering Controls:** Adequate local or mechanical ventilation to reduce vapor or mist to below the PEL or TLV.

**Monitoring:** Follow accepted work practices for handling a flammable material.

#### Personal Protective Equipment (PPE)

**Eye Protection:** Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

**Skin Protection:** Impervious solvent resistant gloves.  
Impervious apron and work boots recommend where splashing may occur.

**Respiratory Protection:** Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

#### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, Colorless Liquid
<b>Odor</b>	Mild Odor
<b>pH@25°C</b>	7.0
<b>Melting/Freezing Point</b>	-
<b>Flashpoint</b>	235°F, COC
<b>Specific Gravity</b>	1.1255
<b>Solubility</b>	100%
<b>Auto-Ignition Temperature</b>	-
<b>Decomposition Temperature</b>	-
<b>VOC Content</b>	-
<b>Odor Threshold</b>	-
<b>Boiling Range</b>	288°C
<b>Evaporation Point</b>	Not Established
<b>Flammable Limits - Upper</b>	9.2%
<b>Flammable Limits - Lower</b>	0.9%
<b>Vapor Pressure</b>	<0.01 mmHg @ 20°C
<b>Vapor Density (Air=1)</b>	5.2 (Air=1)
<b>Viscosity</b>	-

#### SECTION X - STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None

**Hazardous Decomposition/Byproducts:** CO, CO<sub>2</sub>, and noxious smoke under extreme fire conditions

## Safety Data Sheet

### Triethylene Glycol

**Hazardous Polymerization:** Will not occur.

**Polymerization Conditions to Avoid:** None

#### SECTION XI - TOXICOLOGICAL INFORMATION

**Likely Route of Exposure:** Contact and inhalation; ingestion possible.

**Inhalation:** May cause irritation to the upper respiratory tract and CNS depression. Low to moderate degree of toxicity by inhalation.

**Eye Contact:** Causes eye irritation including stinging, watering and redness which may result in corneal injury.

**Skin Contact:** Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.  
No harmful effects from skin adsorption are expected.

**Ingestion:** Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.

#### Toxicity:

Component Name	LD50	LC50
Diethylene Glycol	Oral - rat - 12,565 mg/kg; Oral - Human - 1,000 mg/kg; Dermal -	Not Established
Triethylene Glycol	Oral - rat - 17,000 mg/kg; Dermal - rabbit - > 22,500 mg/kg	Not Established

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

#### SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicity:** Information not available.

**Mobility:** Information not available.

**Degradability:** Information not available.

**BioAccumulation:** Information not available.

# Safety Data Sheet

Triethylene Glycol

## SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, state, and local regulations.

## SECTION XIV - TRANSPORT INFORMATION

### DOT SHIPPING INFORMATION

**Proper Shipping Name:** Not Regulated

**Contains:**

**Hazard Class and Label:**

**Identification Number:**

**Packaging Group:**

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:**..... The components of this product are listed on the TSCA Inventory

### SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

### SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X			

### SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

### CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

## SECTION XVI - OTHER INFORMATION

**HMIS Health:** ..... 1

**HMIS Flammability:** ..... 1

**HMIS Reactivity:** ..... 0

**Additional:**

## Safety Data Sheet

Triethylene Glycol

### Specification Information

**Department issuing data sheet:** Compliance

**Email address:** [compliance@transcheminc.com](mailto:compliance@transcheminc.com)

**Training necessary:** Follow all Federal, State and local regulations.

### Disclaimer:

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