

Date of Revision: April 1, 2025

Section 1 - Chemical Product and Company Identification

Product Name Triethylene Glycol 80%

Synonyms TEG 80, 2,2'-(ethylenedioxy)diethanol; TEG; 2,2'-[1,2-

ethanediylbis(oxy)]bisethanol; Triglycol

Product Use Various use, chemical intermediate, heat transfer fluid

Restrictions On Use Not Applicable Supplier CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

General Assistance 1 (877) 269-3419

Emergency Telephone Not Dangerous Goods – Call General Assistance

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Section 2 – Hazard Identification

Signal Word Warning GHS Pictogram(s) None

Hazard Statement:

H316 Causes mild skin irritation. H320 Causes eye irritation.

Precautionary Statement

P264 Wash skin thoroughly after handling.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332 + P313 IF SKIN IRRITATION OCCURS: Get medical advice / attention.
P337 + P313 IF EYE IRRITATION PERSISTS: Get medical advice / attention.

Storage

No Statements.

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

GHS Classification Skin irritation (Category 3)

Eye irritation (Category 2B)

HMIS Classification

Health Hazard 1
Chronic Health Hazard *
Flammability 1
Physical Hazards 0

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT,



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Common Name NUMBER

Triethylene Glycol TEG, 2,2'-(ethylenedioxy)diethanol; TEG; 2,2'-[1,2-ethanediylbis(oxy)]bisethanol; Triglycol

80% 112-27-6

Water H₂O. Aqua

H₂O, Aqua 20% 7732-18-5

* = Various ** = Mixture *** = Proprietary

Chemical Formula Not Applicable

Section 4 - First Aid Measures

Inhalation Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Get medical attention.

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower lids. Check for and remove contact lenses. Continue to rinse for at least 15

minutes. Get medical attention.

Skin Contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Get medical attention immediately. Call a poison control centre or physician. IF

alert, rinse mouth and drink ½ to 1 glass of water to help dilute the material. Do not give liquids to a drowsy, convulsion, or unconscious patient. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie,

belt or waistband.

Most Important Symptoms/Effects both Acute and Delayed

Harmful if swallowed. Symptoms may include headache, nausea, vomiting.. May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching

and dryness.

Note to Physician Consult a physician. Show this safety data sheet to the doctor in attendance.

Section 5 - Fire-Fighting Measures

Flash Point (°C) Not Flammable

Flash Point Method PMCC Auto Ignition Temperature 347°C

Conditions of Flammability Not flammable or combustible.

Extinguishing Media
Unsuitable Extinguishing

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Media Water jet.

Unusual Fire/

Explosion Hazard No data available.

Hazardous Combustion

Products Carbon oxides.

Fire Fighting Equipment Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.

Special Precautions for

Firefighters No data available.



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Section 6 - Accidental Release Measures

Personal precautions Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapour

can accumulate in low areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

suitable, closed containers for disposal.

Section 7 - Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic.

Incompatible Materials Strong Acids, Strong Bases. Strong oxidizing agents.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits
Triethylene Glycol ACGIH TLV

Ceiling: 50ppm, 127mg/m³

Personal protective equipment

Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals. If contact is possible, the following protection should be worn: Splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this

is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If inhalation hazards exist, a full-face respiratory may be required instead.

Skin protection Wear chemical resistant gloves, impermeable protective clothing and safety

shoes. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection Use a properly fitted, air-purifying or supplied air respirator complying with an

approved standard if a risk assessment indicates this is necessary.

General hygiene

Considerations Handle in accordance with good industrial hygiene and safety. Eye wash fountains

and safety showers must be easily accessible.

Specific engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust

ventilation or other engineering controls to keep worker exposure to airborne



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contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

Section 9 - Physical and Chemical Properties

Physical StateLiquidWater SolubilitymiscibleAppearance & OdourClear, colourless. Odourless.Boiling Point>100°C

Vapour Pressure <1 mmHg (20.0°C) (TEG) Boiling Point Range Not applicable

Vapour Density5.18(Air = 1) (TEG)Melting Point<-31°C</th>Specific Gravity1.10 - 1.12Freezing Point<-31°C</td>Partition coefficient (n-Not available.Lower Explosive Limit (LEL)0.9% (TEG)

octonal/water)

pH 5.0 – 9.0 Upper Explosive Limit (UEL) 9.2% (TEG)
Flashpoint (Method) Not Flammable. Auto Ignition temperature 347°C (TEG)
Odour Threshold Not available. Evaporation Rate Not available.

Flammability (Solid, Gas) Not available.

Decomposition Temperature Not available. **Viscosity** Not available.

Section 10 - Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No data available.

Conditions to avoid No data available.

Materials to avoid Strong acids. Strong oxidizing agents. Strong bases

Hazardous decomposition products

Carbon oxides.

Section 11- Toxicological Information

Information on Likely Routes of Exposure

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.Skin contactHarmful if absorbed through the skin. May cause skin irritation.

Eye contact May cause eye irritation.

Ingestion May cause abdominal discomfort or pain, nausea, vomiting

Acute and Chronic Toxicity No data available

Acute toxicity

Product/Ingredient Name Result Species Dose Exposure

Triethylene Glycol LD50 Oral Rat 17000mg/kg - LD50 Dermal Rabbit 22500mg/kg -

Skin corrosion/irritation Slightly irritating to skin.

Serious eye damage/ Eye irritation

Slightly irritating to the eye.



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Respiratory or skin sensitization

No data available. Not expected to be a sensitizer. No known significant effects or critical hazards.

Carcinogenicity

Mutagenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by ACGIH.

Reproductive toxicityNo data available. **Teratogenicity**No data available.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available.

Aspiration hazard No data available.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects

No data available.

Potential Delayed Health Effects

No data available.

Long Term Exposure

Potential immediate Health Effects
Potential Delayed Health Effects
No data available.
Potential Chronic Effects
No data available.

Synergistic effects No data available

Section 12 - Ecological Information

Toxicity

Product / Ingredient NameResultSpeciesExposureTriethylene GlycolAcute LC50 >100mg/LFish – Leuciscus idus96 HrAcute EC50 46500mg/LDaphnia – Daphnia magna24 Hr

Persistence and degradability >70% - readily biodegradable

Bioaccumulative potential No bioaccumulation is to be expected (log Pow ≤4)

Mobility in soilNo data available.PBT and vPvB assessmentNo data available

Section 13 – Disposal Considerations

Product

Do not discharge substance/product into sewer system. Dispose of in accordance with national, regional, and local regulations.

Contaminated packaging

Dispose of as unused product in a licensed facility. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled materials and runoff and contain with soil, waterways, drains, and sewers.



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Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

Not Dangerous Goods

Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Section 16 - Other Information

REVISION SUMMARY:

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SDS Prepared by: CFR Lab Manager

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