



Infosafe No™	1CHCI	Issue Date : April 2018	RE-ISSUED by CHEMSUPP
--------------	-------	-------------------------	-----------------------

Product Name : **TRIETHYLENE GLYCOL**

Not classified as hazardous

1. Identification

GHS Product Identifier	TRIETHYLENE GLYCOL		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended use of the chemical and restrictions on use	Solvent and plasticizer in vinyl, polyester and polyurethane resins; dehydration of natural gas; humectant in printing inks; extraction solvent and laboratory reagent.		
Other Names	Name	Product Code	
	Trigol		
	TEG		
	TRIETHYLENE GLYCOL LR	TL069	
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.		

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
--	---

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Triethylene glycol	112-27-6	100 %		

4. First-aid measures

Inhalation	Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention in severe cases, if symptoms develop, or if breathing is difficult.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye contact	If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops seek medical attention.
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures



Infosafe No™	1CHCI	Issue Date : April 2018	RE-ISSUED by CHEMSUPP
--------------	-------	-------------------------	-----------------------

Product Name : **TRIETHYLENE GLYCOL**

Not classified as hazardous

Hazards from Combustion Products	Toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

6. Accidental release measures

Personal Precautions	Evacuate the area of all non-essential personnel. Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal.
Environmental Precautions	Prevent from entering into drains, ditches or rivers.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation. Avoid contact with eyes, skin, and clothing. Ensure good ventilation at the workplace.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible materials.
Storage Regulations	Classified as C2 (Combustible Liquid) for the purpose of storage and handling in accordance with AS1940. Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible liquids'.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by SafeWork Australia for this product. There is a blanket limit of 10 mg/m ³ for mists when limits have not otherwise been established.
Appropriate engineering controls	Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: Butyl rubber gloves
Personal Protective Equipment	The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
-------------	--------



Infosafe No™	1CHCI	Issue Date : April 2018	RE-ISSUED by CHEMSUPP
--------------	-------	-------------------------	-----------------------

Product Name : **TRIETHYLENE GLYCOL**

Not classified as hazardous

Appearance	Clear, colourless to light yellow viscous liquid.
Odour	Practically odourless; mild odour.
Melting Point	-5 to -7 °C.
Boiling Point	285 °C.
Solubility in Water	Miscible (soluble) in all proportions.
Solubility in Organic Solvents	Miscible with alcohol, benzene, toluene; soluble in oxygenated solvents; slightly soluble in ethyl ether, chloroform; practically insoluble in petroleum ether.
Specific Gravity	1.125 at 20 °C.
pH	6.5 - 7.5 (100 g/l H ₂ O, 20 °C).
Vapour Pressure	1.33 hPa at 114 °C.
Vapour Density (Air=1)	5.17.
Evaporation Rate	<0.005 compared with Butyl acetate.
Viscosity	47.8 cP at 20 °C.
Volatile Component	100 %vol @ 21 °C
Partition Coefficient: n-octanol/water	log P(o/w): -1.98 (25 °C) (calculated); -1.24 to -1.9 (calculated).
Flash Point	165 °C (CC); 171 °C (CC); 177 °C (CC).
Flammability	Combustible liquid.
Auto-Ignition Temperature	347 °C at 1013 hPa; 371 °C.
Flammable Limits - Lower	0.9 vol%.
Flammable Limits - Upper	9.2 vol%.
Explosion Properties	Explosive vapour-air mixtures may be formed above the flash point, at elevated temperatures, or when exposed to heat, flame, or spark.
Molecular Weight	150.18
Oxidising Properties	No oxidizing properties.
Other Information	Bulk density: 1126.49 kg/m ³ (at 20 °C). Refractive index: (n 20 °C/D) 1.4559.

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures, pressures and conditions of storage and handling. Hygroscopic.
Conditions to Avoid	High temperatures, strong heating, flames, ignition sources, exposure to moisture and incompatible materials.
Incompatible Materials	Strong oxidizing agents, strong acids, sulfuric acid, perchloric acid, alkalis and isocyanates.
Hazardous Decomposition Products	Toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Can react with oxidizing materials. Glycols undergo violent decomposition in contact with 68-72% perchloric acid.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 15000 mg/kg;
Acute Toxicity - Dermal	LD50 (rabbit): 22460 mg/kg.
Ingestion	Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhoea. Possible aspiration hazard. Absorption of large quantities may cause damage of the liver and kidneys.
Inhalation	Exposure to mists may cause mild respiratory tract irritation. Inhalation of vapour/mists is not expected to cause adverse effects.



Infosafe No™	1CHCI	Issue Date : April 2018	RE-ISSUED by CHEMSUPP
--------------	-------	-------------------------	-----------------------

Product Name : **TRIETHYLENE GLYCOL**

Not classified as hazardous

Skin	May cause slight skin irritation, with redness, dryness, inflammation and itching.
Eye	Causes mild eye irritation. Liquid causes irritation and may cause transient disturbances of corneal epithelium. However, these effects diminish. Adverse effects are not expected to be permanent. Vapours are non-irritating.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Chronic ingestion of moderate amounts can cause changes to the liver, kidneys, bladder, and enzyme levels. Prolonged exposure may cause skin irritation. Prolonged exposure can cause nausea, headache, and vomiting. Chronic exposure may cause blood effects (severe aplastic anaemia, anaemia, and blood platelet reductions) and central nervous system effects (drowsiness, fatigue, tremors and mental dullness), pulmonary congestion and oedema and liver and kidney damage.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Persistence and degradability	Biologic degradation: Slow degradation.
Mobility	Distribution: log P(o/w): -2.08 (calculated); -1.98 (25 °C) (calculated); -1.24 to -1.9 (calculated).
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w) <1).

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
--------------------------------	--

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.
------------------------------	---

15. Regulatory information

Regulatory Information	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
Empirical Formula & Structural Formula	Empirical Formula: C ₆ H ₁₄ O ₄ . Structural Formula: HO-CH ₂ -CH ₂ -O-CH ₂ -CH ₂ -O-CH ₂ -CH ₂ -OH.



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™	1CHCI	Issue Date : April 2018	RE-ISSUED by CHEMSUPP
--------------	-------	-------------------------	-----------------------

Product Name : **TRIETHYLENE GLYCOL**

Not classified as hazardous

...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.
The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.