



Infosafe No™	1CHRD	Issue Date : November 2019	RE-ISSUED by CHEMSUPP
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Product Name : **TRITON X-100**

Classified as hazardous

1. Identification

GHS Product Identifier TRITON X-100

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Surfactant, analytical reagent, chemical production, chromatography, tensioactive substances, detergent, emulsifier, for cellular membranes solubilisation.

Other Names**Name****Product Code**

(p-tertiary-Octylphenoxy polyethyl alcohol)
TRITON X-100 LR
Teric X10

TL125

Additional Information**Other Information**

Triton is a registered trade name of Union Carbide.

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 Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 1
Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Pictogram (s)

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Corrosion, Exclamation mark, Environment

**Precautionary statement – Prevention**

P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

Precautionary statement – Response

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.



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Precautionary statement – Disposal

P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P391 Collect spillage.
P501 Dispose of contents/container in accordance to relevant local, state and federal government regulations.

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	p-tertiary-Octylphenoxy polyethyl alcohol	9002-93-1	100 %	Xn, Xi, N	R22, R41, R51/53

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do not use mouth-to-mouth resuscitation if the victim has ingested or inhaled the substance.
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. If rapid recovery does not occur, obtain medical attention
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Most important symptoms/effects, acute and delayed	Causes eye burns.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire (carbon oxides).
Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or alcohol resistant/normal foam. (Foam and water may cause frothing.) Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways.
Hazchem Code	•3Z
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, 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 using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.



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Environmental Precautions Prevent contamination of soil and water.

7. Handling and storage

Precautions for Safe Handling Avoid prolonged or repeated contact with skin and eyes . Avoid breathing vapour, spray or mists. DO NOT ingest.

Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities Store in a cool,dry place. Store away from oxidizing agents. Keep containers closed at all times.

8. Exposure controls/personal protection

Other Exposure Information No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m³. All atmospheric contamination should be kept to as low a level as is workable.

Appropriate engineering controls In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

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 Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

Personal Protective Equipment Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Footwear Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection 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
Appearance	Clear liquid.
Colour	Light yellow.
Odour	Weak odour.
Melting Point	6 °C
Boiling Point	270°C @ 760 mmHg
Solubility in Water	Soluble.
Specific Gravity	1.067
pH	6-8 (50 g/l, H ₂ O, 20 °C)
Flash Point	251°C - closed cup
Molecular Weight	646.85

10. Stability and reactivity



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Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Incompatibles. Excess heat, Exposure to air, Exposure to light, Exposure to moist air or water. Reducing agents, strong oxidizing agents, strong bases, strong acids.
Incompatible Materials	
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (Rat): 1800 mg/kg.
Ingestion	Harmful if swallowed. May cause nausea, vomiting and irritation of the gastrointestinal tract. Risk of aspiration upon vomiting. Possible pulmonary oedema.
Eye	Cause serious eye damage.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	No evidence of carcinogenic properties.
Reproductive Toxicity	Experiments have shown reproductive toxicity effects on laboratory animals. Developmental effects have occurred in experimental animals.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Aspiration Hazard	Not classified based on available information.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.
Serious eye damage/irritation	H318 Causes serious eye damage.
Mutagenicity	Not classified based on available information.
Skin corrosion/irritation	H315 Causes skin irritation.

12. Ecological information

Ecotoxicity	Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Soluble in water. Persistence is unlikely, based on information available. Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Mobility	The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Environmental Protection	Do not allow product to enter drains, waterways or sewers.
Acute Toxicity - Fish	LC50 (P. promelas): 8.9 mg/l/96 h.
Acute Toxicity - Daphnia	EC50 (Daphnia magna): 26 mg/l/48 h.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information



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Transport Information U.N. Number	Dangerous Goods of Class 9 Miscellaneous Dangerous Goods are incompatible in a placard load with dangerous goods of Class 1. 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (p-tertiary-Octylphenoxy polyethyl alcohol)
Transport hazard class(es)	9
Hazchem Code	•3Z
Packing Group	III
EPG Number	9C1
IERG Number	47
IMDG Marine pollutant	Yes
Other Information	SPECIAL SPECIAL PROVISION AU01 States: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 not subject to this Code when transported by road or rail; (a) packagings; (b) IBCs; or (c) any other receptacle not exceeding 500 kg(L).

15. Regulatory information

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