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Product Name **TWEEN 80**

Not classified as hazardous

1. Identification

GHS Product Identifier	TWEEN 80
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)
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Other Names

Name	Product Code
TWEEN 80 LR	TL038
Polysorbate 80	
Polyoxyethylene Sorbitan Monooleate	

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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

Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004] 3rd Edition, Safe Work Australia.
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Composition, information on ingredients

Polysorbate 80 is a mixture of partial esters of various fatty acids, mainly oleic acid, and sorbitol and its anhydrides copolymerised with approx. 20 moles of ethylene oxide for each mole of sorbitol and sorbitol anhydrides.

Ingredients

Name	CAS	Proportion
Polysorbate 80	9005-65-6	100 %

4. First-aid measures

Inhalation	Remove to fresh air. Seek medical advice if effects persist.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek medical advice if effects persist.
Skin	Remove contaminated clothing and shoes immediately. Wash affected areas with copious quantities of water and soap. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
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.
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

Unsuitable Extinguishing Media	Water jet - High volume.
Hazards from Combustion Products	May liberate toxic fumes (corbon oxides) in fire.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. Small/large fire: Use CO2, alcohol-resistant foam, dry chemical or water spray.
Specific hazards arising from the chemical	May be combustible at high temperatures. Fire or heat may produce irritating, poisonous and/or corrosive gases. Solid water streams may scatter and spread fire. Prevent run-off from fire fighting entering drains or water courses.
Precautions in connection with Fire	Wear SCBA and chemical splash suit.
Other Information	Cool unopened containers with water spray.

6. Accidental release measures

Spills & Disposal	Do NOT touch or walk through this product unless wearing appropiate proptective clothing. Stop leak if safe to do so. Ventilate area of leak or spill. Water spray may be used to known down or divert vapour clouds. Flush small spills to drain with plenty of water. Contain large spills using non-combustible materials, such as sand and earth. Absorb onto an inert material and sweep up.
Personal Precautions	Evacuate the area of all non-essential personnel. Remove all possible sources of ignition in the surrounding area Product may present a slip hazard.
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.
Environmental Precautions	Prevent further leakage or spillage and prevent from entering drains

7. Handling and storage

Precautions for Safe Handling	Only use in well-ventilated areas.
Conditions for safe storage, including any incompatibilities	Store in original containers. Keep container tightly closed in a dry, well-ventilated place.

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	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.
Respiratory Protection	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. 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, yellow oily liquid.
Odour	Characteristic
Boiling Point	>100°C
Solubility in Water	Soluble in water.
Solubility in Organic Solvents	Soluble in ethanol and isopropanol. Insoluble in mineral oil, vegetable oil and cottonseed oil.
Specific Gravity	~1.07
pH	Note: neutral
Vapour Pressure	Negligible at ambient temperatures
Viscosity	Viscosity, dynamic: 425 mPa.s Viscosity, kinematic: 300-500 mm2/s at 25°C
Pour Point	~ -20°C
Flash Point	>148.9°C
Flammability	Combustible.
Molecular Weight	1131.9 g/mole

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Avoid contact with skin, eyes and clothing.
Incompatible Materials	Oxidizing agents.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): >20000 mg/kg
Ingestion	Not available.

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Inhalation	Not available.
Skin	Rabbit - No skin irritation.
Eye	Rabbit - No eye irritation.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Patch test (human volunteers) - did not demonstrate sensitisation properties.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	No evidence of carcinogenic properties.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Serious eye damage/irritation	Not classified based on available information.
Mutagenicity	No evidence of mutagenic properties.
Skin corrosion/irritation	Not classified based on available information.

12. Ecological information

Persistence and degradability	Biodegradability (OECD static test method): 100%
Information on Ecological Effects	Biochemical Oxygen Demand (BOD)(OECD 301C): 32% Dissolved Organic Carbon (DOC) (OECD 301C): 52% Chemical Oxygen Demand (COD) (OECD 301C): 1.75gO2/g
Acute Toxicity - Fish	Fish - Oncorhynchus mykiss (rainbow trout) static test: LC50: 471 mg/l, 96h.
Acute Toxicity - Daphnia	Mysidopsis bahia: LC50 165mg/l, 96h.
Acute Toxicity - Bacteria	Pseudomonas putida: IC0 > 10,000mg/l

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.

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.

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. 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. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals'.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
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