Safety Data Sheet TWEEN 80

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SECTION 1: Identification

GHS Product identifier

Product name	TWEEN 80

Other means of identification

Product	Product Code
Tween 80 USP/NF	TP038
Tween 80 LR	TL038

Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	1131.9

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.

Component	Identification	Weight %	Classifications
Polysorbate 80	CAS no.: 9005-65-6 EC no.: 500-019-9	<= 100 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	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.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
If swallowed	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.

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Unsuitable Extinguishing Media: Water jet - High volume.
Small/large fire: Use CO2, alcohol-resistant foam, dry chemical or water spray.

Specific hazards arising from the chemical
Hazards from Combustion Products: May liberate toxic fumes (corbon oxides) in fire.

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.

Special protective actions for fire-fighters
Wear SCBA and chemical splash suit.

Further information
Cool unopened containers with water spray.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Product may present a slip hazard.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry, well-ventilated place.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face 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.

Skin protection
Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection
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 and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance, such as physical state and colour	Oily
Colour	Clear, yellow
Odour	Characteristic
Odour threshold	No data available.
Melting point and freezing point	No data available.
Boiling point or initial boiling point and boiling range	>100°C
Flammability	No data available.
Lower and upper explosion limit or lower and upper flammability limit	No data available.
Flash point	>148.9°C
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidising properties	No data available.
pH	Note: neutral
Kinematic viscosity	Viscosity: Viscosity, dynamic: 425 mPa.s; Viscosity, kinematic: 300-500 mm2/s at 25°C
Solubility	Solubility in Water: Soluble in water. Solubility in Organic Solvents: Soluble in ethanol and isopropanol. Insoluble in mineral oil, vegetable oil and cottonseed oil.
Partition coefficient — n-octanol/water (logarithmic value)	No data available.
Vapour pressure	Negligible at ambient temperatures
Evaporation rate	No data available.
Density and relative density	Specific Gravity: ~1.07
Relative vapour density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Hazardous Polymerization: Will not occur.

Conditions to avoid
Avoid contact with skin, eyes and clothing.

Incompatible materials
Oxidizing agents.

Hazardous decomposition products
Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Not classified based on available information.

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/irritation
Not classified based on available information.

Respiratory or skin sensitization
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure
Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure
Not classified based on available information.

Aspiration hazard
Not classified based on available information.

SECTION 12: Ecological information

Toxicity
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

Persistence and degradability
Biodegradability (OECD static test method): 100%

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer
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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', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)