

1. IDENTIFICATION

Product Name	Polysorbate 20
Other Names	Polyoxyethylene sorbitan monolaurate; Tween 20
Uses	Surfactant; Emulsifier; Industrial uses; Cosmetic ingredient.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Not Scheduled

Redox Ltd

Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

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Phone +61 2 9733 3000 +61 2 9733 3111 Fax E-mail sydney@redox.com Web www.redox.com ABN 92 000 762 345

Australia Adelaide Brisbane Melbourne Perth UK Sydney

New Zealand Malaysia Auckland Christchurch USA Hawke's Bay Oakland Mexico London Saltillo

Kuala Lumpur Los Angeles



Globally Harmonised System

Hazard Classification	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Signal Word	None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods
	by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Polyoxyethylene sorbitan monolaurate	Unspecified	9005-64-5	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth. Get medical advice/attention. Do not induce vomiting unless instructed to do so by medical personnel. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Avoid getting water inside containers.
Flammability Conditions	Combustible liquid; May burn but does not ignite readily.
Extinguishing Media	Use dry chemical, Carbon dioxide, (alcohol-resistant) foam or water spray for extinction - Do not use water jets (may disperse the material and intensify the fire).
Fire and Explosion Hazard	Containers may explode when heated.

Hazardous Products of Combustion	Fire will produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (fire kit).
Flash Point	>100 °C [Open cup]
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.
Clean Up Procedures	Absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Contain and dike spilled product with earth or sand.
Decontamination	Wash the contaminated surface with water, which should be collected for disposal.
Environmental Precautionary Measures	Avoid release to the environment - Prevent entry into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE	
Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Keep away from heat and sources of ignition - No smoking.
Storage	Store between 20 and 50 °C in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers tightly closed when not in use. Maintain under inert gas atmosphere. Avoid prolonged exposure to air. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (strong oxidising agents).
Container	Keep in the original container or recommended packaging material, i.e. Carbon steel coated with vinyl ester resin, stainless steel and polyester resin reinforced with glass fiber. Do NOT store in zinc (galvanized steel) or zinc alloys.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or exposure to high concentrations of the product. Recommended: Face mask with organic vapour cartridge. In case of emergency, wear an air-supplied

mask or self-contained breathing apparatus (SCBA).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Side-shields or wide-vision safety goggles.
- Hand protection: Handle with gloves. Recommended: Rubber or PVC gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: PVC apron, safety boots/shoes.

Special Hazards Precaustions

Work Hygienic Practices

No information available.

Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear liquid
Odour	Odourless
Colour	Yellowish
рН	5.0 - 7.0 5 % (25 °C)
Vapour Pressure	<16 mmHg (@ 25 °C)
Relative Vapour Density	No Data Available
Boiling Point	>100 °C
Melting Point	No Data Available
Freezing Point	<20 °C
Solubility	Soluble in water 20°C
Specific Gravity	1.08 - 1.12
Flash Point	>100 °C [Open cup]
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	1.08 - 1.12 g/cm3
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	250 - 500 cSt (@ 25 °C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.

Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid; May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/combustion will produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	No hazardous reactivity is expected.
Chemical Stability	Stable under normal conditions of use and storage.
Conditions to Avoid	Keep away from heat (high temperatures) and sources of ignition. Avoid prolonged exposure to air.
Materials to Avoid	Incompatible/reactive with strong oxidising agents, strong acids.
Hazardous Decomposition Products	Fire/combustion will produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide.
Hazardous Polymerisation	Does not polymerise.

11. TOXICOLOGICAL INFORMATION

General Information	 Information on possible routes of exposure: Ingestion: Low toxicity. Toxic effects are not expected; large amounts may cause nausea and vomiting. Eye contact: May cause irritation of the conjunctiva. Skin contact: Unlikely to cause irritation or toxic effects. Inhalation: Unlikely to cause inhalation problems at room temperature due to low vapour pressure. High vapour concentrations may cause respiratory irritation. Chronic effects: No information available.
Acute	
Ingestion	Acute toxicity (Oral): - LD50, Rat: 36,700 mg/kg [Supplier's SDS].
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence/Degradability	Expected to be biodegradable.
Mobility	The product is slightly volatile and water soluble.
Environmental Fate	Avoid release to the environment - Prevent entry into drains and waterways.
Bioaccumulation Potential	Not expected to bioaccumulate in the environment.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information

The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration or other thermal destruction process at licensed facilities capable of minimising or reducing air pollution emissions. Disposal must be in accordance with local/regional/national regulations.

Special Precautions for Land Fill

I Contaminated packaging: Do NOT cut or pierce the packaging, nor do hot work near them. Do NOT remove labels until the product has been fully removed and the packaging cleaned.

14. TRANSPORT INFORMATION

Proper Shipping Name Polysorbate 20 Class C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable Subsidiary Risk(s) No Data Available NN Number No Data Available Hazchem No Data Available Pack Group No Data Available Special Provision No Data Available Comments NON-DANGEROUS GOODS: Not regulated for LAND transport. Land Transport (Malaysia) ADR Code Proper Shipping Name Polysorbate 20 Class No Data Available Subsidiary Risk(s) No Data Available No Data Available No Data Available Subsidiary Risk(s) No Data Available No Data Available No Data Available JUN Number No Data Available No Data Available No Data Available Subsidiary Risk(s) No Data Available No Data Available No Data Available Special Provision No Data Available Comments No Data Available NZS5433 Proper Shipping Name Proper Shipping Name Polysor	Land Transport (Australia) ADG Code	
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	Pack Group	No Data Available
Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.	Special Provision	No Data Available
	Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America) US DOT

Proper Shipping Name	Polysorbate 20
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.
Sea Transport IMDG Code	
Proper Shipping Name	Polysorbate 20
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.
Air Transport IATA DGR	
Proper Shipping Name	Polysorbate 20
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods
	by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information

No Data Available

Poisons Schedule (Aust)	Not Scheduled
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Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Hazardous

National/Regional Inventories

Australia (AIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	500-018-3
Europe (REACh)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

16. OTHER INFORMATION

Related Product Codes	POLSOR1001, POLSOR1500, POLSOR2000, POLSOR2001, POLSOR2002, POLSOR2003, POLSOR2004, POLSOR2005, POLSOR2006, POLSOR2007, POLSOR2015, POLSOR2100, POLSOR2200, POLSOR2222, POLSOR2223, POLSOR2224, POLSOR2300, POLSOR2400, POLSOR2500, POLSOR2600, POLSOR2700, POLSOR2701, POLSOR2702, POLSOR2800, POLSOR2900, POLSOR3000, POLSOR5000
Revision	4
Revision Date	06 Feb 2019
Key/Legend	< Less Than Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO2 Carbon Dioxide COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (°F) Degrees Farenheit g Grams g/cm³ Grams per Cubic Centimetre g/I Grams per Litre HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluable in each other. inHg Inch of Mercury inH20 Inch of Water K Kelvin kg Kilogram kg/m³ Kilograms per Cubic Metre Ib Pound LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. Itr or L Litre m³ Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH20 Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission OECD Organisation for Economic Co-operation and Development Oz Ounce PEL Permissible Exposure Limit Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch **R** Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours **UN** United Nations wt Weight