

1. IDENTIFICATION

Product Name	Polyoxyethylene, sorbitan monostearate
Other Names	POE (20) Sorbitan Monostearate; PROTASORB S-20; Sorbitan monostearate, ethoxylated; Sorbitan, monooctadecanoate, poly(oxy-1,2-ethanediyl) derivatives
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Polyoxyethylene, sorbitan monostearate
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty 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

Globally Harmonised System

Hazard Classification

NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

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 (20) Sorbitan Monostearate	No Data Available	9005-67-8	>=97 %

4. FIRST AID MEASURES*Description of necessary measures according to routes of exposure*

Swallowed	Do not induce vomiting without medical advice. Immediately give large amounts of water to drink. Call a physician immediately. Never give anything by mouth to an unconscious person.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, consult a specialist.
Skin	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
Inhaled	If breathed in, move person to fresh air. If symptoms persist, call a physician.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	Do not allow run-off to enter drains and water courses.
Flammability Conditions	Flammable solid.
Extinguishing Media	Use water spray (fog), alcohol resistant foam, dry chemical. Do not use a solid water stream as it may scatter and spread fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Products of Combustion	Heating or fire can release toxic gases of carbon oxides.
Personal Protective Equipment	In the event of a fire, wear a self-contained breathing apparatus.
Flash Point	300 °C
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	Wear Personal Protective Equipment. Ensure adequate ventilation.
Clean Up Procedures	Shovel spills into appropriate containers for disposal. Avoid dust formation. Wet residue with water and a take up with absorbent material. Dispose of absorbent material in accordance with local, state and federal regulations.
Containment	Avoid release to the environment. Limit leakage with earth or sand.
Environmental Precautionary Measures	Do not discharge into the drains/ surface water/ ground water.
Evacuation Criteria	Evacuate unnecessary personnel.
Personal Precautionary Measures	Refer to Section 8 for Personal Protective Equipment.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath & safety shower are available and ready for use. Handle in accordance with good industrial hygiene and safety practices. Provide adequate ventilation at machinery and places where dust can be generated. Take precautionary measures against static discharges.
Storage	Store in original closed container, in a cool, dry, well-ventilated place away from sources of heat, ignition and direct sunlight.
Container	Store in original container as approved by the manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No information available.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protection Equipment	Hands: Chemical resistant gloves. Eyes: Chemical goggles or glasses with side shields. Skin: Protective clothing. Respiration: The use of a NIOSH approved respirator may be needed if working in a poorly ventilated area.
Special Hazards Precautions	Eye wash and safety shower in work area.
Work Hygienic Practices	Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke while using this product. Use personal protective equipment as required. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Waxy
Odour	Characteristic, fatty odour
Colour	Yellow
pH	6 - 8
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	26 - 30 °C
Freezing Point	26 - 30 °C
Solubility	Soluble in water
Specific Gravity	No Data Available

Flash Point	300 °C
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	1.07 g/cm ³
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	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	No information available.
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	No information available.
Reactions That Release Gases or Vapours	No information available.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid sources of heat, ignition and direct sunlight.
Materials to Avoid	Avoid strong oxidizing agents, acids, bases.
Hazardous Decomposition Products	Heating or fire can release toxic gases of carbon oxides.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	No Data Available
Acute	
Ingestion	ACUTE TOXICITY: ORAL Rat LD50 >5,000 mg/kg

EyeIrritant	TEST TYPE: Draize SPECIES: Rabbit RESULTS: Non irritant
SkinIrritant	SPECIES: Human EXPOSURE: 72hr RESULTS: Non irritant
Carcinogen Category	No

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence/Degradability	Readily Biodegradable.
Mobility	No information available.
Environmental Fate	No information available.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	The disposal must comply with all local legislation and in accordance with standards from local environmental agencies.
Special Precautions for Land Fill	The preferred options for disposal include reuse, recycle or reclamation at licensed facilities.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

Land Transport (Malaysia)

ADR

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

Land Transport (United States of America)

US DOT

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

Sea Transport

IMDG Code

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

Air Transport

IATA DGR

Proper Shipping Name	POLYOXYETHYLENE SORBITAN MONOSTEARATE
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

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)

15. REGULATORY INFORMATION**General Information** No Data Available**Poisons Schedule (Aust)** Not Scheduled**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Assessed**National/Regional Inventories**

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	500-020-4
Europe (REACH)	Listed
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Listed
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes	POLSOR2010
Revision	1
Revision Date	27 May 2015
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/l 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
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb 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.
ltr 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
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health 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