



POLYSORBATE 80 SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Identifiers

Product Name: Polysorbate 80
Other Names: Polyoxyethylene sorbitan (20) monooleate
Uses: Industrial use
Chemical Name: Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.
Product description: 900-65-6
No data available

Contact Details of the Supplier of this Safety Data Sheet

Supplier: Heirloom Body Care Pty Ltd
Address: Unit 9, 28 Coombes Drive Penrith NSW 2750 Australia
Telephone: 02 4722 2123
Fax: 02 4722 2904

Emergency Contact Details

For emergencies only; DO NOT contact for general product advice

Poisons Information Centre 13 11 26

SECTION 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)

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)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Chemical Entity	Formula	CAS Number	Proportion
Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.	Unspecified	9005-65-6	>=86 - 100%

SECTION 4: FIRST AID



Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth. Get medical advice/attention if you feel unwell. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. 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 Contact	IF ON SKIN: Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 15 minutes. 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. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult
Advice to Doctor	There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient. * Most important symptoms/effects, acute and delayed: Large doses may cause abdominal spasms and diarrhoea. Aspiration could cause chemical pneumonitis. May cause respiratory tract irritation.
Medical Conditions Aggravated by Exposure	No information available

SECTION 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
Flammability Conditions	Product is not flammable. May burn but does not ignite readily
Extinguishing Media	Use dry chemical, carbon dioxide (CO ₂), alcohol-resistant foam or water spray for extinction Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire * CAUTION: Use of water spray when fighting fire may be inefficient.
Fire and Explosion Hazard	Containers may explode when heated
Hazardous Products of Combustion	Fire may produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide
Special Fire Fighting Instructions	Contain runoff from fire control water - runoff may cause pollution
Personal Protective Equipment	Wear self contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection
Flash Point	>149°C [Cleveland 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

SECTION 6: ACCIDENTAL RELEASE MEASURES

General REsponse Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources. 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	Clean contaminated objects and areas thoroughly observing environmental regulations.
Environmental Precautionary Measures	Prevent entry into drains and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation
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)

SECTION 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 and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see section 8)
Storage	Store in a cool, dry and well-ventilated place. Protect from sunlight. Keep containers tightly closed when not in use. Avoid prolonged exposure to the air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from incompatible materials (see SECTION 10)
Container	Keep in the original container or recommended packaging material i.e. Stainless steel, carbon steel

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

General	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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: In case of inadequate ventilation, wear respiratory protection. Recommended: Wear face mask with organic vapor cartridge in case of exposure to aerosols. In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. (refer to AS/NZS 1715 & 1716) - Eye/Face protection: Wear appropriate eye protection to avoid eye contact. Recommended: ear safety glasses with side shields goggles - Hand protection: Handle with gloves. Recommended: Gloves made of rubber or PVC (polyvinyl chloride) - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: PVC apron, safety boots/shoes
Special Hazards Precautions	No information available
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If accidental contact occurs, exposed area should be washed immediately Take off contaminated clothing and wash it before reuse

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General information

Physical state	Liquid
Appearance	Liquid
Odour:	No information available
Colour:	Yellowish - amber
pH	6.0 (5% w/w in water @ 25°C
Vapour pressure:	<16mmHg (@25°C)
Relative Vapour Density:	No data available
Boiling point:	>100°C
Melting point:	No data available
Freezing point:	<0°C
Solubility	Soluble in water
Specific Gravity	1.07 (water = 1)
Flash point:	>149°C [Cleveland Open Cup]
Auto ignition Temp:	No data available



Evaporation Rate	No Data Available
Bulk density	Not available
Corrosion Rate	No Data Available
Decomposition temperature:	No Data Available
Density	1.07 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	300-500cSt (@25°C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	Pour Point: -21.5°C (-5°F)
Potential for Dust Explosion	No Data 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 for Fire Intensity	Product is not flammable: May burn but does not ignite readily
Reactions That Release Gasses or Vapours	Combustion/decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide
Release of Invisible Flammable Vapours and Gases	No information available

SECTION 10: STABILITY AND REACTIVITY

General Information	No hazardous reactivity is expected
Chemical Stability	Stable under normal conditions of use and storage
Conditions to Avoid	Avoid high temperatures) and sources of ignition. Avoid prolonged exposure to air.
Materials to Avoid	Incompatible/reactive with strong oxidising agents
Hazardous Decomposition Products	Combustion/decomposition may produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide
Hazardous Polymerisation	Will not polymerise

SECTION 11: TOXICOLOGICAL INFORMATION

General Information	Information on toxicological effects - Acute toxicity. Large doses may cause abdominal spasms and diarrhoea. - Skin corrosion/irritation. Reported to be non-irritating when applied to human skin for 48hrs. Produced inflammation, thickening and necrosis when applied to rabbits for one month - Eye damage/irritation: Causes mild irritation. Slight irritant (150mg, rats) - Respiratory/skin sensitisation. Not a skin sensitizer in guinea-pigs - Germ cell mutagenicity: Negative results with sister chromatid exchange and Ames tests. Positive results with chromosome aberration test (induced rat liver (S9) - Carcinogenicity: No evidence of carcinogenic activity in female rats or in male or female mice which received diets containing 25,000 or 50,000 ppm for 2 years - Reproductive toxicity: Reproductive effects have been reported in animals. 10-20 day old male rat pups whose dams received chronic docs (1.25ml/L) via drinking water exhibited an enhancement in their exploratory and locomotor activity during the diurnal period of the day
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- STOT (single exposure) May cause respiratory tract irritation
- STOT (repeated exposure) Daily doses or up to 15grams given to adult humans produced no adverse effects. Mild to moderate central nervous system depression with ataxia, paralytic activity and reduced rectal temperature was reported after oral administration in laboratory animals. Pheochromocytomas in male rats as well as inflammation, squamous hyperplasia and ulcers of the fore stomach of rats and mice have been reported in 2 year feeding studies.
- Aspiration toxicity: Aspiration could cause chemical pneumonitis

Information on likely routes of exposure:

- Ingestion: Large doses may cause abdominal spasms and diarrhoea. Aspiration could cause pneumonitis
 - Eye contact: Causes mild irritation
 - Skin contact: It is considered to be non-irritating to human skin
 - Inhalation: May cause respiratory tract irritation
- Chronic effects: No information available.

Acute

Ingestion

Acute toxicity (Oral)

-LD50, Rat: 34,500 uL/kg

-LD50, Mouse: 25000 mg/kg

* Probable lethal dose for humans is above 15g/kg for 70kg person

Chronic

Reproduction

Reproductive effects (Oral)

-LOAEL, Rat: 500mg/kg/day (based on an increase in maternal relative liver weight

-NOAEL, Rat >5000mg/kg/day (based on prenatal development)

Carcinogen Category

None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Persistence/Degradability

Not readily biodegradable (32% after 28 days)

Mobility

Expected to have high mobility in soil

Environmental Fate

Slightly hazardous to water - Prevent entry into drains and waterways

Bioaccumulation Potential

Not expected to bioaccumulate in the environment

Environmental Impact

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

Dispose of contents/container in accordance with local/regional/national regulations. 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. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions

Special Precautions for Landfill

Contaminated packaging: The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. Do not cut or pierce the packaging, not do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned

SECTION 14: TRANSPORT INFORMATION

Land transport Australia - ADG Code):

Proper shipping name:

Polysorbate 80

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 80
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 80
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

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)
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SECTION 15: REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

National/Regional Inventories

Australian (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IESC)	Listed
Europe (EINECS)	Listed



Europe (REACH)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Not Determined
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Listed

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