

1. IDENTIFICATION

Product Name	EUOPRENE SOL T (SBS)
Other Names	No Data Available
Uses	Production of various rubber final applications.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Styrene-Butadiene Block Copolymer (SBS)
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)

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
Styrene-Butadiene Copolymer	No Data Available	9003-55-8	100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If swallowed: Call a Poison Centre or doctor/physician if you feel unwell.
Eye	If in eyes: Rinse cautiously with running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin	If on skin: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. In case of contact with melted material: Cool down with cold water and seek immediate medical attention. Do NOT remove the product solidified on skin. Treat as a burn.
Inhaled	If inhaled (dust or gas/vapours released by heating): Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician if you feel unwell.
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 endangered receptacles with water spray.
Flammability Conditions	The product is combustible. Ignition temperature: >280 °C.
Extinguishing Media	Water, water spray, foam, dry chemicals, carbon dioxide.
Fire and Explosion Hazard	Product is not flammable. Product does not present an explosion hazard.
Hazardous Products of Combustion	Combustion Products: Carbon dioxide, Carbon monoxide (when starved of air/oxygen), and possible unburned hydrocarbons. Overheating/pyrolysis evolves vapours made up of monomers, low molecular weight polymers and their oxidation products.
Special Fire Fighting Instructions	No information available.
Personal Protective Equipment	Wear suitable protective clothing (helmet, goggles, fire resistant gloves, boots) and self contained breathing apparatus.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
	No Data Available

Upper Explosion Limit	
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Do not walk on granules to avoid slipping.
Clean Up Procedures	Collect mechanically. Reuse if possible or dispose of as required by national and local regulations (see Section 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination	No information available.
Environmental Precautionary Measures	No information available.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unprotected persons away.
Personal Precautionary Measures	Wear protective equipment (see Section 8).

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Use gloves and safety glasses. Avoid contact with sources of ignition. Elevated processing temperatures may result in thermal degradation. Maximum allowed temperature: 200 °C (for a very short time). During processing of the product, avoid inhalation of fumes or powders, by providing good ventilation of the workroom and, if necessary, a suitable exhaust system. Precautions against the accumulation of electrostatic charges should be used during processes which employ powdered materials or produce dust (e.g. reduce speed to the minimum, install earthing systems, prohibit smoking and use of free flames, use inert gases in mills and in closed systems).
Storage	Store out of direct sunlight, in well ventilated, cool and dry place. Product should be stored in a safe manner, to avoid danger from unstable or damaged packaging units. In storage and working areas avoid pellets spilling as a possible cause of slipping. In case of prolonged exposure to sunlight and/or heat, the product may degrade and cause self-combustion phenomena. Avoid prolonged exposure of the product to temperatures above 70 °C for 10 days, that may lead to degradation causing self-heating reactions until self-combustion.
Container	Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	There are no ingredients with limit values that require monitoring at the workplace. Safe Work Australia Exposure Standard for Rogue dust (inspirable dust): Time Weighted Average (TWA): 10 mg/m ³
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	Provide good ventilation of the workroom and, if necessary, a suitable exhaust system. Traces of monomers and other volatile substances may be given off during processing, particularly at unusually high processing temperatures. Work rooms must be provided with adequate ventilation and exhaust equipment to collect dust and gas/vapours that may be evolved during the conversion.
Personal Protection Equipment	Respiratory protection: In normal conditions masks with anti-dust filters should be available for use when requested. (AS 1715/1716). Eye/face protection: Not necessary when no powders or vapours are present. Where present, wear suitable protective glasses. (AS 1336/1337). Hand protection: Wear protective gloves (AS 2161). Protective clothing: Personal protective equipment will vary according to the possible exposure and danger of working conditions. (AS 3765/2210).
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke while handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Granulate
Odour	Odourless
Colour	White
pH	No Data Available
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	>94 °C
Freezing Point	No Data Available
Solubility	Insoluble
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	200 - 450 kg/m ³
Corrosion Rate	No Data Available
Decomposition Temperature	>200 °C
Density	0.94 - 0.96 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	The product is combustible. Ignition temperature: >280 °C.
Reactions That Release Gases or Vapours	Combustion Products: Carbon dioxide, Carbon monoxide (when starved of air/oxygen), and possible unburned hydrocarbons. Overheating/pyrolysis evolves vapours made up of monomers, low molecular weight polymers and their oxidation products.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable if stored and handled as prescribed/indicated.
Conditions to Avoid	Exposure to sunlight and/or heat. Accumulation of electrostatic charges.
Materials to Avoid	Avoid contact with oxidising substances.
Hazardous Decomposition Products	Combustion Products: Carbon dioxide, Carbon monoxide (when starved of air/oxygen), and possible unburned hydrocarbons. Overheating/pyrolysis evolves vapours made up of monomers, low molecular weight polymers and their oxidation products.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	The product's dust may cause irritation of the eyes. Dust or gas/vapours released by heat: Irritation of the respiratory organs; Eyes reddening.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	The product is essentially a high molecular weight polymer, not regarded as ecotoxic.
Persistence/Degradability	The product is a non biodegradable polymer.
Mobility	No information available.
Environmental Fate	No information available.
Bioaccumulation Potential	Does not accumulate in organisms.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	After suitable treatment (cleaning, grinding, etc.), the product can be safely re-used, as is or mixed with fresh material, when this is compatible with the intended final application. Disposal of product/scraps/waste/residues must be made according to official regulations.
Special Precautions for Land Fill	incineration must be done under approved conditions, possibly with energy recovery, and only at suitable facilities equipped with a scrubber for the treatment of fumes before their release into the atmosphere. Landfill should be avoided. If unavoidable, use approved landfill sites.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Styrene-Butadiene Block Copolymer (Europrene)
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	Styrene-Butadiene Block Copolymer (Europrene)
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	Styrene-Butadiene Block Copolymer (Europrene)
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	Styrene-Butadiene Block Copolymer (Europrene)
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	Styrene-Butadiene Block Copolymer (Europrene)
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	Styrene-Butadiene Block Copolymer (Europrene)
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)
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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 Hazardous

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	618-370-2
Europe (REACH)	Pre-registered
Japan (ENCS/METI)	6-134
Korea (KECI)	KE-13258
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)	Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes	POLSBS1700, POLSBS1701, POLSBS1702, POLSBS1703, POLSBS1704, POLSBS1705, POLSBS1706, POLSBS1707, POLSBS1708, POLSBS1713, POLSBS1720, RUBSBR1711
Revision	2
Revision Date	28 Sep 2015
Key/Legend	<p>< 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</p>

tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight