

Safety Data Sheet

SBR 1502

1. IDENTIFICATION OF SUBSTANCE / COMPANY INFORMATION

Chemical Name	Synthetic butadiene-methyl styrene rubber.
Synonyms	SBR 1500, copolymer of butadiene with α -methyl styrene
CAS #	106-99-0
Formula	
Chemical Family	Synthetic rubber
Supplier	SunBoss Chemicals Corp.
Address	8-110 West Beaver Creek Road Richmond Hill, ON L4B 1J9
Telephone	905-707-3433
Fax	905-707-7393
Emergency Information	<i>After normal hours call Chemtrec at 1-800-424-9300</i>

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>EC No.</u>
Copolymer of butadiene with α -methylstyrene	106-99-0	> 98	203-450-8
Free α -methylstyrene	100-42-5	< 0.1	202-851-5
Antioxidant		1 – 1.4	
	<u>Symbol(s)</u>	<u>Risk Phrase(s)</u>	
	None	None	

3. HEALTH HAZARDS INFORMATION

EMERGENCY OVERVIEW

COMBUSTIBLE MATERIAL!

Harmful if inhaled or swallowed.

Small quantities may cause irritation to eyes.

Exposure to hot materials may cause thermal burns.

Potential Health Effects

Inhalation	Dangerous if inhaled. May cause irritation of the respiratory system
Ingestion	Harmful if swallowed. Long term exposure causes blood composition changes. May cause liver damage.
Skin contact	May cause an allergic skin reaction. May cause a rash and itching of the skin.

Eye Contact Small quantities can cause moderate eye irritation. Signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

4. EMERGENCY FIRST AID PROCEDURES

Inhalation Remove to fresh air, rest, warmth. If airways are irritated use warm milk with soda, oil inhalations. In case of nose bleed – insert a cotton tampon wetted in 3% hydrogen peroxide solution. Seek medical care, if necessary.

Ingestion Seek medical attention. Never give anything by mouth to an unconscious person.

Skin Remove contaminated clothing, wash skin with water, using soap. Launder clothing before reuse.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and if needed administer 2-3 drops of 30% albucid solution. Seek medical attention if irritation persists.

Note to Physician Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient. Observe for signs of respiratory distress.

5. FIRE AND EXPLOSION HAZARD MEASURES

Flammability Flammable. Product will burn actively with dense black smoke, if put near ignition sources. No disposition to thermal spontaneous ignition.

Flash Point Not applicable

Flash Point Method Not applicable

DOT Category Not applicable

Extinguishing Media Water spray, foam, asbestos or sand.

Auto Ignition Temperature 339 °C

Flammable Limits Not applicable

Special Fire Fighting Procedures Fight fire from a safe distance and from a protected location. Flammable dust when in finely divided and highly suspended state. Use water spray, foam, asbestos or sand to cool fire exposed surfaces. Do not allow run-off to enter waterways.

Special Protective Equipment Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Unusual Fire and Explosion Hazards Not applicable

6. ACCIDENTAL RELEASE MEASURES

Procedures Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.

Clean up Methods

Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Remove ignition sources and work with non-sparking tools. Absorb spill with inert material such as sand, earth or vermiculite, then place in a suitable container. Do NOT spread spilled product with water.

7. HANDLING AND STORAGE

Handling

Good industrial and hygienic safety practices should be observed. Provide local ventilation of work zones. Provide thorough sealing and grounding of process equipment. Regularly control work zone air. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Avoid contact with eyes, skin and clothing. Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet.

Storage

Store closed containers in a cool, dry, well-ventilated area with temperatures not exceeding 30°C. Store away from direct sunlight, heat and moisture. Keep away from flammable materials and sparking sources. Prevent from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. Eliminate ignition sources. Grounding of equipment is mandatory.

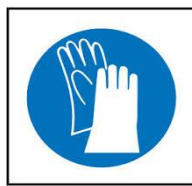
Exposure Limits

ACGIH TLV

None

OSHA PEL

None



Respiratory

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure Demand Full Face Self Contained Breathing Apparatus. For respirator apparatus protection in emergency situations and during repair use, industrial filtering respirators of grades A, BKF, hose respirators should be worn

Eyes

Wear safety glasses or goggles to protect against exposure.

Skin

Normal work coveralls. Launder contaminated clothing before reuse.

Gloves

Use gloves as a standard industrial handling procedure. All cleanable impervious glove types are acceptable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Light yellow to beige

Odour

Slightly aromatic

Specific Gravity

Not applicable

Density	0.93 g/cm ³
Bulk Density	Not applicable
Solubility in water	Insoluble in water
pH	Not applicable
Other Solubility	Soluble in aliphatic and aromatic hydrocarbons, chloroform, carbon tetrachloride.
Ignition temperature	293 °C
Auto ignition temperature	339 °C
Mooney Viscosity MB1+4 (100°C)	46-57 °C

10. STABILITY AND REACTIVITY

Chemical Stability	Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Protect from moisture.
Conditions to avoid	Oxidizing agents, high temperatures, sparks
Incompatibility	Avoid oxidants, concentrated acids, organic solvents and flammable matter
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Carbon oxides, carbon black
Additional Guidelines	Heat, moisture, oxygen, ozone, mechanical stress and direct sunlight cause structural rubber changes and product deterioration.

11. TOXICOLOGICAL INFORMATION

Acute oral LD 50 (mg/kg)	Rat: >5000mg/kg
Acute Dermal LD 50 (mg/kg)	Rabbit: >2000 mg/kg
Acute Inhalation LC50 (mg/l)	Very low toxicity
Principle routes of Exposure	Inhalation, ingestion, eyes, dermal
Ingestion	Harmful if swallowed. Long term exposure causes blood composition changes. May cause liver damage.
Skin contact	May cause an allergic skin reaction. May cause a rash and itching of the skin.
Inhalation	Dangerous if inhaled. May cause irritation of the respiratory system.
Eye Contact	Small quantities can cause moderate eye irritation. Signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Aggravated Conditions	Long term exposure causes blood composition changes. May cause liver damage.
Carcinogenicity	Not carcinogenic
Primary Irritation Effect	Not determined
Genotoxicity	Not determined
Reproductive/Developmental Toxicity	Not determined

12. ECOLOGICAL INFORMATION

Acute Fish Toxicity	Not determined
Acute Crustacean Toxicity	Not determined
Octonal/Water Coefficient	Not determined
Chemical Fate Information	Not determined
Other Information	None

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Waste should be collected, packed and liquidated or processed. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations.
Contaminated Packaging	If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Dispose of container according to national or local regulations.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
TDG (Canada)	Not regulated

15. REGULATORY INFORMATION

THIS PRODUCT IS NOT DEFINED AS A DANGEROUS SUBSTANCE OR PREPARATION ACCORDING TO THE COUNCIL DIRECTIVE 67/548/EEC AND ITS VARIOUS AMENDMENTS AND ADAPTATIONS.

Risk Phrase(s)	None
Safety Phrase(s)	S16 – Keep away from sources of ignition – No smoking. S41 – In case of fire and/or explosion do not breathe fumes. S47 – Keep at temperatures not exceeding 30°C. S61 – Avoid release to the environment.

FDA Status 21 CFR	Regulated for use under the following sections of 21 CFR: 175.105: Components of Adhesives. 176.170, 176.180: Substances for Use Only as Components of Paper and Paperboard. 177.1020,177.1030,177.1050,177.1480,177.1635,177.1640,177.1810,177.2600,177.2800: Substances for Use as Basic Components of Single and Repeated Use Food Contact Surfaces. 178.3790: Certain Adjuvants and Production Aids.
TSCA	Listed
Canadian DSL	Listed
EINECS/ELINCS	Listed
<u>US Regulations</u>	
SARA Section 302	None
SARA 311/312 Hazard Categories	None
SARA 313 Chemical	None
RCRA Status	Not a RCRA waste
<u>Canadian Regulations</u>	
WHMIS Hazard Class	None
NPRI	None

16. HAZARD RATING SYSTEM

NFPA Rating (Scale 0-4)

- 0 - Minimal Hazard
- 1 - Slight Hazard
- 2 - Moderate Hazard
- 3 - Serious Hazard
- 4 - Severe Hazard

HEALTH	1
FIRE	1
REACTIVITY	0

HMIS Classification (Scale 0-4)

- 0 - Minimal Hazard
- 1 - Slight Hazard
- 2 - Moderate Hazard
- 3 - Serious Hazard
- 4 - Severe Hazard

HEALTH	1
FIRE	1
REACTIVITY	0

17. OTHER INFORMATION

Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. SunBoss Chemicals Corp. extends no warranty and assumes no responsibility for the accuracy or sufficiency of the content and expressly disclaims all liability for reliance thereon. This material safety data sheet provides guidelines for the safe handling of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. It is the responsibility of the user to comply with all Federal, State and local laws and regulations.

Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists Inc.
CAS: Chemical Abstracts Service (Division of American Chemical Society)
DOT: Department of Transportation (USA)
EINECS: European Inventory of Existing Commercial Chemical Substances
HMIS: Hazardous Materials Identification System (USA)
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Marine Code for Dangerous Goods
DL₀: Lethal dose to 100% of test population
LD₅₀: Lethal Dose Medium
LC₅₀: Lethal Concentration Medium
EC₅₀: Effective Concentration Medium
NIOSH: National Institute for Occupational Safety and Health
NFPA: National Fire Protection Association (USA)
NPRI: National Pollutant Release Inventory (Canada)
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration (USA)
TDG: Transportation of Dangerous Goods (Canada)
TLV: Threshold Limit Value
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Information Systems (Canada)

18. REVISION DATE

Revision number: 2

Date of Issue: October 20, 2014

Changes: Number and format of headings changed; Updates to Sections 1: Identification of Substance - EC information added; 2: Health Hazards Information; 8: Specific Personal Protection Equipment - pictograms added; 14: Transport information - updated; 15: Regulatory information - EC information added; 16: Hazard Rating System - table added; 17: Abbreviations and Acronyms added