



MATERIAL SAFETY DATA SHEET

STYRENE-BUTADIENE RUBBER 1500

IDENTIFICATION

Product Information	Styrene-Butadiene Rubber (SBR1500)
Product Name	SBR 1500
Use of the production/ Preparation	Tire tread, conveyor belt, hose, Shoes

HAZARD IDENTIFICATION

Human health hazards	The material itself is slightly hazardous to the human body. Heating may release small amounts of volatile irritants.
Environmental hazards	Not available.
Physical/chemical hazards	The material burns slowly with high smoke density.
HMIS Hazard Classification	Health: 1 Flammability : 1 Physical Hazard 0 Protection B

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Max.Wt. %
Styrene-Butadiene Copolymer	9003-55-8	> 93.4
Disproportionate Rosin	8050-09-7	<5
Hydrogenated Tallow Fatty acids	61790-383	<1
Antioxidant	Proprietary	<0.6



FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

Inhalation	If fumes/vapours are inhaled, move to fresh air, aid breathing if necessary. Get medical attention if irritation persists.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops or persists
Eye Contact	Remove as for any foreign object. Flush with clean water for 15 minutes. Get medical attention if irritation persists.
Ingestion	Unlikely to occur. Contact Poison Control Centre
Note to Physician	Treat Symptomatically.
Major Disease And Harm Effect	None
First Aid Personal Protection	None
Prompt to Doctor	None

FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water, Water/foam, Carbon di oxide,ABC fire extinguisher powder
Special Exposure Hazards	None known
Special Extinguishing Procedure 1. Firefighters should wear proper protective apparatus including clothes and stay upwind. 2. Move containers out of fire area and put out a fire if it can be done without risk. 3. Cool containers with water spray until the fire is put out. 4. Use water spray; Foam; CO2 or Dry chemical powder to extinguish flame. 5. Keep personnel removed and upwind of fire, isolate hazard area and deny the right to entry. 6. Avoid inhale any materials or by-products during combustion.	
Special Protecting Equipment	Full protective clothing and self-contained breathing apparatus.



ACCIDENTAL RELEASE MEASURES

Personal Protection	Wear appropriate personal protective equipment.
Environmental Protection	Avoid to approach heater or ignition source.
Methods for cleaning Up	Large spills: Collect spilled material and reuse if possible. Small spills: Collect spilled material in containers and dispose appropriately.

HANDLING AND STORAGE

Handling:

Do not eat, drink or smoke when using. Avoid inhalation of fumes/vapours from hot rubbers, compounds and vulcanizates. Avoid repeated or prolonged contact with skin. Wear gloves and wash hands after.

Storage:

With the reference of ISO 7664- Rubber, raw natural and raw synthetic – General guidance on storage and considering the actual storage situation, we suggest that SBR can be stored in a natural condition with normal temperature, lightproof, ventilated, clean and dry.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control	Local exhaust ventilation should be necessary to control any air contaminants during all hot processing operations.
Control Factor	TWA/STEL/CEILING: No special measures. Biotic Index: No specific measures.
Personal Protection Equipment	Respiratory Protection: Under ambient temperature, respiratory protection is not required. Void breathing vapour and mist from hot rubbers, compounds and vulcanizes. Hand Protection: Cloth gloves if desired. Eye Protection: Wear safety glasses. Skin & Body Protection: Standard issue work clothes which may include: apron safety shoes or boots as necessary. Wear heat resistant gloves, arm protection and face shield when working with hot materials.
Hygiene Procedures	Wash thoroughly after handling.



PHYSICAL AND CHEMICAL PROPERTIES
INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour	Brown
Odour	Odourless
Odour threshold	No data available
PH	No data available
Melting Point	No data available
Solidification Point	No data available
Boiling Point	No data available
Flash Point	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	No data available
Log Pow	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available



STABILITY AND REACTIVITY

Stability	Stable at ambient temperature and pressure.
Special Condition of Hazardous Reaction	If ignited by excessive heat or open flame the product will burn.
Incompatibility	Strong Oxidizers.
Hazardous Decomposition Product	Carbon Monoxide Carbon Dioxide partially oxidized hydrocarbon.
Hazardous Reactions	Will not occur.

TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation	Not expected to be corrosion but maybe irritant.
Eye corrosion/Irritation	Not expected to be corrosion but maybe irritant.
Skin Sensitive	May cause sensitization by skin contact.
Aspiration Toxicity	May cause irritation or carcinogens by inhalation of fumes/vapour.
Carcinogenicity	No information available.
Mutagenicity	No information available.
Repeated exposure toxicity	Repeated exposure may cause irritation.
Chronic	No information available.
Exceptional Effect	No information available.

ECOLOGICAL INFORMATION

Eco Toxicity	Data not available
Persistence/Degradability	Data not available
Bio accumulative Potential	Data not available
Bio accumulative Potential	Data not available
Mobility	Data not available



DISPOSAL CONSIDERATIONS

Product disposal Information	Incinerate or landfill in accordance with applicable environment control regulation. Recycle if possible.
Container Disposal	Remove all packing for recover or waste disposal.

TRANSPORT INFORMATION

Internal Transport Regulation	This material is not classified as hazardous under USA DOT regulations, Canadian Transportation of Dangerous Goods Regulations, Europe Transportation of Dangerous Goods Regulations, and IATA Regulations.
The United National Number (Un-No)	None
Transport Hazard Class	This material is not classified as hazardous according to the UN model Regulations.
Packing Group	This packing group is not classified as hazardous according to the UN model Regulations.
Special Transport Way And Note	None

REGULATION INFORMATION

OSHA	Rosin fumes are eye and skin irritants & sensitizers.
FDA	Products are not approved for direct or indirect contact with foodstuffs.
SARA Title III	Section 302/304. Extremely Hazardous Substances - None. Section 311. Hazardous Substances - Not Applicable. Section 313. This product is not subject to reporting requirements
EINECS & TSCA	Components are listed.
CA65	Not listed
EU Phrases	Symbol: Xn Harmful Risk Phrases R43, May cause sensitization by skin Contact Safety Phrases S2-24-37 Contains: Disproportionated rosin acid.



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DISCLAIMER

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

LIMITED WARRANTY

There are no warranties which extend beyond the product description herein, and seller makes no warranty, express or implied, of fitness for particular use, merchantability or otherwise with respect to product, whether used singly or in combination with other substance or in any process, except that product sold hereunder shall conform to seller's standard sales specifications as of the date of the shipment. Without limiting the foregoing, seller does not recommend or endorse the use of product(s) in any medical application and specifically disclaims any representation or warranty, express or implied, of suitability or fitness for use or otherwise, with respect to product(s)' use in any medical application. Buyer represents and warrants that no product(s) purchased hereunder will be used in or resold into any commercial or developmental manner in connection with medical applications without seller's prior express written acknowledgement, further, buyer agrees that it will make no representations, express or implied, to any person to the effect that seller recommends or endorses the use of product(s) purchased hereunder in any medical application.