

Material Safety Data Sheet (MSDS)

1. Identification

Product Information	Styrene-Butadiene Rubber (SBR1500)
Product Name	Taipol - SBR 1500
Use of the production/Preparation	Tire tread, conveyor belt, hose, Shoes
Information on Product/Supplier Name/Address	Indian Synthetic Rubber Private Limited, Opposite Naphtha Cracker Polymer Terminal Gate Panipat Refinery, Panipat, Haryana, India. Pincode-132140
Phone	0180-2529001

2. 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

3. Composition/Information on Ingredients

Ingredient	CAS No.	Max.Wt. %
Styrene-Butadiene Copolymer	9003-55-8	> 93.4
Disproportionate Rosin	8050-09-7	<5
Vegetable Fatty acids	67701 – 06 – 8	<3
Antioxidant -6PPD	793-24-8	~0.2
Antioxidant -7PPD	3081-01-4	~0.2

4. 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
Major Disease And Harm Effect	None
First Aid Personal Protection	None
Prompt to Doctor	None

5. Fire Fighting Measures

Suitable Extinguishing Media: Water, Water/foam, Carbon di oxide, ABC fire extinguisher powder
Special Exposure Hazards : None known
Special Extinguishing Procedure: <ol style="list-style-type: none"> 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.

6. 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.

7. 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 ISRPL SBR can be stored in a natural condition with normal temperature, lightproof, ventilated, clean and dry.

8. 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.

9. Physical and Chemical Properties

Information on basic Physical and Chemical Properties

1.	Physical state	Solid
2.	Colour	Brown
3.	Odour	Odourless
4.	Odour threshold	No data available
5.	PH	No data available
6.	Melting Point	No data available
7.	Solidification Point	No data available
8.	Boiling Point	No data available
9.	Flash Point	No data available
10.	Flammability (solid, gas)	No data available
11.	Explosive limits	No data available
12.	Vapour pressure	No data available
13.	Relative vapour density at 20 °C	No data available
14.	Relative density	No data available
15.	Solubility	No data available
16.	Log Pow	No data available

17.	Decomposition temperature	No data available
18.	Viscosity, kinematic	No data available
19.	Viscosity, dynamic	No data available
20.	Explosive properties	No data available
21.	Oxidising properties	No data available

10. 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.
Conditions to Avoid: Extreme temperature, 300-350°C (572-662 °F) will cause thermal decomposition.
Incompatibility: Strong Oxidizers.
Hazardous Decomposition Product: Carbon Monoxide Carbon Dioxide partially oxidized hydrocarbon.
Hazardous Reactions: Will not occur.

11. 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.

12. Ecological Information

Eco toxicity	Data not available.
Persistence/degradability	Data not available.
Bio accumulative potential	Data not available.
Mobility	Data not available.
Other adverse effects	Data not available.

13. 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.

14. 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.
Marine Pollutant : This material is not classified as hazardous according to the UN model Regulations, ADR RID and IMO.
Special Transport Way And Note: None.

15. 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

16. Other Information

Reference	None
Supplier	Name : Indian Synthetic Rubber Private Limited, Opposite Naphtha Cracker Polymer Terminal Gate Panipat Refinery, Panipat, Haryana, India.
Date	2013/09/24
Version	0
Additional Comments	The information contained in this document is believed to be current and accurate. However, this data is provided without any warrantee expressed or implied regarding or accuracy. Recipients are advised to determine in advance the safe conditions for use of this product.

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.