



Material Safety Data Sheet (MSDS)

1. Identification

Product Information	Styrene-Butadiene Rubber , Aromatic Oil Extended (SBR1712)
Product Name	Taipol - SBR 1712
Use of the production/ Preparation	Tire, Water Pipes, Rubber machinery products and auto accessories
Information on Product/Supplier Name/Address	Indian Synthetic Rubber Limited, Opposite Naphtha Cracker Polymer Terminal Gate Panipat Refinery, Panipat, Haryana, India. Pincode-132140
Phone	0180-2529001

2. Hazard Identification

Human health hazards	Aromatic Oil is listed as human carcinogen by IARC and OSHA. 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: 2 Flammability : 1 Physical Hazard 0 Protection B

3. Composition/Information on Ingredients

Ingredient	CAS No.	Max.Wt. %
Styrene-Butadiene Copolymer	9003-55-8	>67.4
Extracts (petroleum), residual oil solvent	64742-10-5	<27
Vegetable Fatty acids	67701 – 06 – 8	<3
Disproportionate Rosin	8050-09-7	<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
Note to Physician:	Treat Symptomatically.
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
Unsuitable Extinguishing Media	No restrictions
Special exposure hazards	No known
Combustion Products Combustion	Carbon Mono oxide, Carbon di oxide, Products of Incomplete
Protection of fighters	Fire fighters should wear full protective clothing including Self-contained breathing apparatus. Keep personnel removed and upwind of fire
NEPA Hazard Classification	Health : 2 Flammability : 1 Reactivity : 0 Special : ---



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

<p>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.</p>
<p>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 ISRL SBR can be stored in a natural condition with normal temperature, lightproof, ventilated, clean and dry.</p>

8. Exposure Controls/Personal Protection

Exposure Limit Values	Not defined for this material
Engineering Controls	A ventilation system should be installed where processing at high temperature.eg .Vulcanisation is carried out and where bales are being ground or machined. Local exhaust ventilation is recommended during all hot processing operations
Personal Protection General	General hygiene considerations are appropriate when used as recommended .The following precautions are recognised as common good industrial hygiene practice. Emergency conditions may require additional precautions.
Respiratory	Not normally required at ambient temperatures. Avoid inhalation of fumes/vapours from hot rubbers, compounds and vulcanizes. If processing in area were ventilation is inadequate or ignition has occurred, wear a NIOSH-approved organic vapour respirator
Eyes & Skin	Wear heat resistant gloves, arm protection and face shield when working with hot material. Avoid contact with eyes and skin and wash thoroughly after handling and before eating and drinking.

9. Physical and Chemical Properties

Information on basic Physical and Chemical Properties

1.	Appearance	Bales
2.	Colour	Dark Brownish
3.	Odour	Odourless to Weak aromatic
4.	PH	No data available
5.	Boiling point/Range	No data available
6.	Flash Point	> 210°C
7.	Flammability	No the product will burn if ignited
8.	Explosive Properties	Not Explosive
9.	Oxidizing Properties	Not an Oxidizer
10.	Vapour Pressure	NE, Negligible
11.	Relative density	0.93-0.97
12.	Solubility in Water	Insoluble



13.	Solubility in fats/oils	NE
14.	Partition Coefficient (n-octanol-water)	NE
15.	Viscosity	NE
16.	Vapour Density	NA
17.	Evaporation rate:	NA
18.	Volatile (% by weight ,@105°C)	0.50max
19.	Auto Ignition Temperature	> 246°C
20	Decomposition Temperature	> 218°C

10. Stability and Reactivity

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

11. Toxicological Information

Toxicity to Humans	Aromatic Extract oils are carcinogens. Other Components are skin sensitizers or may be irritants.
Toxicity to Animals	Aromatic Extract oils are IARC animal carcinogens.
Components	See Section 15.

12. Ecological Information

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

13. Disposal Considerations

Methods of disposal	Reuse if possible. Material as supplied is not characterized as hazardous under RCRA (Resource and Conservation Recovery act).Incinerate or dispose as directed by local, state and federal regulations.
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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	Aromatic Petroleum Oil is Carcinogenic, Rosin are irritants.
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	Mineral oils are known to California to cause Cancer or Reproductive Effects.
EU Phrases	Symbol: T& Xn Harmful Risk Phrases R45, May Cause Cancer & R43, May cause sensitization by skin Contact Safety Phrases S2-24-37 Contains: Aromatic Oil extract, Disproportionated rosin acid.

16. Other Information

Reference	None
Supplier	Name : Indian Synthetic Rubber Limited, Opposite Naphtha Cracker Polymer Terminal Gate Panipat Refinery, Panipat, Haryana, India.
Date	2013/09/24
Version	0

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.