

SAFETY DATA SHEET

COPO® 1778

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name Styrene-Butadiene Rubber (SBR), Oil Extended
Supplier Lion Copolymer LLC
5955 Scenic Highway, Baton Rouge, LA 70805
Emergency telephone (225) 267-3608
E-mail: SBR.MSDS@lioncopolymer.com
Product use General purpose rubber articles and rubber modified articles

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>Max.Wt.%</u>	<u>Hazard Classification</u>
Styrene-Butadiene copolymer	9003-55-8	NA (polymer)	66	NH
Heavy Hydrotreated Naphthenic Distillate	64762-52-5	265-155-0	29	Irritant
Disproportionated Tall Oil	61790-12-3	263-107-3	5	Irritant
Disproportionated Rosin	8050-09-7	232-475-7	3	Sensitizer (Xn, R43)

3. HAZARDS 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

4. FIRST AID MEASURES

Inhalation: If fumes/vapors are inhaled, move to fresh air, aid breathing if necessary. Get medical attention if irritation persists.
Eye Contact: Remove as for any foreign object. Flush with clean water for 15 minutes. Get medical attention if irritation persists.
Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion: Unlikely to occur. Contact Poison Control Center.
Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing media: Water, water/foam, carbon dioxide, ABC fire extinguisher powder.
Unsuitable Extinguishing media: No restrictions.
Special exposure hazards: None known.
Combustion products: Carbon monoxide, carbon dioxide, incomplete combustion products.
Protection of firefighters: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Keep personnel removed and upwind of fire.
NFPA Hazard Classification: Health: 0 Flammability: 1 Reactivity: 0 Special: --

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use protective gloves (see section 8).
Methods for cleanup: In case of large spills: Collect spilled material and reuse if possible. In case of small spills: collect spilled material in containers, and dispose appropriately.

7. HANDLING AND STORAGE

Handling: When using do not eat, drink or smoke. Avoid inhalation of fumes/vapors from hot rubbers, compounds and vulcanizates. Avoid repeated or prolonged contact with skin. Wear gloves and wash hands after handling.

Storage: Store in a clean, dry, dark area to maintain product quality. Keep in original containers or use black covers to protect from artificial or natural light. Outdoor storage should be avoided. The preferred storage temperature is 15-25 C. NFPA Class IIIB Storage, Flash point > 200F.

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 temperatures e.g. vulcanization, 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 recognized as common good industrial hygiene practice. Emergency conditions may require additional precautions.

Respiratory Not normally required at ambient temperatures. Avoid breathing vapor and mist from hot rubbers, compounds and vulcanizes. If processing in area where ventilation is inadequate or ignition has occurred, wear a NIOSH-approved organic vapor 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 or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid, Bales
Color Amber
Odor Odorless to weak aromatic
pH: NA
Boiling point/ Range Not established
Flash Point > 218 C
Flammability: No, but the product will burn if ignited.
Explosive properties: Not Explosive
Oxidizing properties: Not an oxidizer
Vapor pressure: NE, Negligible
Relative density: 0.94
Solubility in water: Insoluble
Solubility in fats/ oils NE
Partition Coefficient
(n-octanol-water): NE
Viscosity NE
Vapor Density NA
Evaporation rate: NA
Volatile (% by weight, @105 C): 0.75 max
Auto Ignition Temperature: > 246 C (475 F)
Decomposition temperature > 218 C

SAFETY DATA SHEET

COPO[®] 1778

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable at ambient temperature and pressure.
Conditions to Avoid	Extreme temperature, 300-350 C (572-662 F) will cause thermal decomposition.
Incompatible Materials	Strong oxidizers.
Hazardous Decomp Products	Carbon monoxide, carbon dioxide, silicates and partially oxidized hydrocarbons
Hazardous Reactions	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity to Humans	Products/ Similar products – IARC: Group 3: not classifiable as a human carcinogen.
Toxicity to Animals Components:	Products/ Similar products – IARC: No adequate animal data. May cause irritation or sensitization by inhalation and skin contact.

12. ECOLOGICAL INFORMATION

Mobility	Not available.
Persistence/degradability	Not available.
Bioaccumulative potential	Not available.
Ecotoxicity	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). Dispose of contaminated materials and other waste materials as directed by local, state and federal regulations. Improper disposal of excess wastes is a violation of federal law.
---------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

14. TRANSPORT INFORMATION

USA	Not regulated as hazardous by DOT regulations.
Canada	Not regulated as hazardous by Canadian Transportation of Dangerous Goods Regulations
Europe	Not regulated as hazardous by European Transportation of Dangerous Goods Regulations
IATA:	Not regulated.

15. REGULATORY INFORMATION

OSHA	Tall oil, Rosin acids and Naphthenic oils are irritants.
FDA:	The following products may be used in compliance with 21 CFR 177.2600, 'Rubber Articles Intended for Repeated Use': 1778
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

None of the materials referenced herein should be used and/or applied in any product, device or material used or for use as human body implant or otherwise within the human body.

Recommended application(s): Elastomeric component in rubber compounds, for applications in automotive, construction, wire and cable and general rubber goods

EU Safety Phrases: S2, Keep out of the reach of children; S24, Avoid contact with skin; S37, Wear suitable gloves.

All information supplied by or on behalf of Lion Copolymer in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Lion Copolymer assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Lion Copolymer for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.

Revision History:

Date Prepared: 6/28/2011, by Larry Harris

Supersedes: 2/2/2006

MSDS ID: SBR1778