

Firestone Polymers

Material Safety Data Sheet

Issue Date:

Reviewed Date: January 27, 2009

Revision Date: January 27, 2009

SECTION 1: PRODUCT IDENTIFICATION

Product Type:
Product Names: SBR oil-extended with naphthenic-type oil- Includes products: Duradene 750B, Duradene 751B, Stereon 763B, and others.
Chemical Name / Synonym: Poly(butadiene-co-styrene), oil-extended with a naphthenic-type oil; SBR, oil-extended with a naphthenic-type oil.
Chemical Family: Butadiene/styrene copolymers, oil-extended with naphthenic-type oil.
Uses: For tire components and extruded and molded rubber goods applications.
24-Hour Emergency Phone: Chemtrec (U.S.A.): 800-424-9300
Chemtrec (International): 703-527-3887 (call collect)
Non-emergency Information: Amy Ciesielczyk: 330-379-7867 (U.S.A.) or aciesielczyk@firestonepolymers.com
Manufacturer's Name: Firestone Polymers
Manufacturer's Address: 381 W. Wilbeth Rd. Akron, OH 44301 (U.S.A.)
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SECTION 2: HAZARD IDENTIFICATION

NFPA Hazard Rating: Health-0 / Flammability-1 / Reactivity-0
HMIS Hazard Rating: Health-0 / Flammability-1 / Reactivity-0
OSHA Hazardous: No
Primary Route of Exposure: Skin Contact
Signs and Symptoms of Exposure: Skin Contact- slight skin irritant; inhalation (high temperatures only)- mild respiratory irritant
Medical Conditions Aggravated by Exposure: Skin and respiratory disorders
Chronic Effects: (For the oil) – Prolonged and repeated contact may result in dryness or cracking of the skin.
Carcinogenicity: None. (For the oil)- Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. The oil gives negative mutagenic results from Modified Ames Assay testing (ASTM E 1687). NTP and OSHA do not list this product as a potential carcinogen. Based on OSHA 1910.1200 and IARC study requirements, this product does not require labeling.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Common Name:	CAS #:	% (by wt)	EC No.	Hazard Symbol/ Risk Phrase
Poly(Butadiene-co-styrene)	SBR	9003-55-8	70.0-87.5%	None	None
Hydrocarbon Mixture with carbon numbers >C-20 and boiling above 640°F. Hydrocarbon mixture contains the following:	Oil	See below.	11.8-28.8	265-155-0	None
Bitumenous Ingredients		8052-42-4	5-15	232-490-9	N/A
Heavy Naphthenic Process Oil		64742-52-5	85-95	265-155-0	N/A

SECTION 4: FIRST AID MEASURES

First Aid Procedures:

Eye Contact – Flush with water. If irritation occurs, seek medical attention.

Skin Contact – Wash affected areas with soap and water. If irritation occurs, seek medical attention.

Ingestion – DO NOT induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested; seek medical advice.

Inhalation – Move victim to fresh air. If breathing is difficult, give oxygen. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water or foam; dirt or sand; dry chemical

Hazardous Combustion Products: Oxides of carbon

Recommended Fire Fighting Procedures: Use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: A release or spill of this material would not constitute a safety hazard.

SECTION 7: HANDLING AND STORAGE

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Precautions to Be Taken in Handling and Storing:

Store at temperatures <150° F. Handle and store in a manner designed to minimize skin contact.

Other Precautions:

When this material is subjected to high temperatures (>250F) for prolonged periods (i.e., rubber curing operations), oil fumes may be released. This may cause potential health hazards. There is no OSHA PEL for curing fumes. General exhaust ventilation is recommended.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Poly(butadiene-co-styrene): None
Hydrocarbon mixture with Carbon numbers >C-20 and Boiling above 650°F: See below.

Hydrocarbon mixture contains the following:

Bitumenous Ingredients: OSHA PEL and ACGIH TLV (TWA)= 5mg/m³ (asphalt fumes); no STEL established

Oil : Heavy Naphthenic Process OSHA PEL and ACGIH TLV=5mg/m³ (oil mist); ACGIH STEL=10mg/m³ (oil mist)

Ventilation:

General exhaust ventilation may be needed during certain processing operations. See Section 7.

Respiratory Protection:

If exposure would exceed occupational exposure limits, use a NIOSH-approved respirator for protection against organic vapors and particulates.

Eye Protection:

Not required

Skin Protection:

Nitrile gloves would prevent possible skin irritation.

Other:

None

Work / Hygienic Practices:

At the end of each work period and before eating, smoking, using tobacco products, or using toilet facilities, wash with soap and water any areas of the body that contacted this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:

Rubbery, brownish solid; slight oil-like odor.

Flash Point:

>100°C

Lower Explosive Limit:

Not applicable

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Method Used:	Pensky Martin Closed Cup	Upper Explosive Limit:	Not applicable
Evaporation Rate:	Not applicable	Boiling Point:	Not applicable
pH:		Melting Point:	Unknown
Solubility in Water:	Nil	Specific Gravity:	>0.93
Vapor Density (Solvent Only):	Not applicable	Percent Volatile:	<0.75%
Vapor Pressure (Solvent Only):	Not applicable		

SECTION 10: STABILITY AND REACTIVITY

Thermal Stability:	Material is stable.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None

SECTION 11: TOXICOLOGICAL INFORMATION

No toxicological information is available for the polymer product as a whole although the polymer base is considered practically non-hazardous. None of the additives are carcinogenic.

SECTION 12: ECOLOGICAL INFORMATION

This product has not been tested for ecological hazards; ecological hazards are unknown.

SECTION 13: DISPOSAL CONSIDERATIONS

Incinerate or landfill in accordance with applicable environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Regulatory Agency:	Not regulated by DOT
Proper Shipping Name:	Not applicable
Hazard Classification:	This product is not classified as hazardous.
Identification Number:	Not applicable
Labels Required:	No special labeling required.
Other Requirements:	None

SECTION 15: REGULATORY INFORMATION

SARA: This product does not contain any chemicals reportable under SARA Title III, Section 313.

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TSCA: This product, including all additives, is on the TSCA inventory.

LABELING: No special labeling required. If special labeling is requested, please contact name/number given below.

SECTION 16: OTHER INFORMATION

Additional Comments: None
Date Prepared () / Revised (X) : January 27, 2009
Date of Previous MSDS: August 8, 2007
Date Reviewed: January 27, 2009

Changes Since Previous MSDS: Modified to comply with REACH and GHS SDS format requirements, including renaming of headings, reversal of Sections 2 and 3, moving hazard ratings from Section 1 to Section 2, and replacing N/A with more detail. Section 1: Included specific product names and their uses, added e-mail address for contact, and added Only Representative information; Section 2: Added detail describing why the oil is not considered carcinogenic. Section 3: Changed oil definition from above 650°C to above 640°C, added oil common name, added oil EC NoI, changed oil ingredient name from asphalt cement to bituminous ingredients, changed oil ingredient name from Severely Hydrotreated Heavy Naphthenic Petroleum Oil to Heavy Naphthenic Process Oil, added weight percents for oil ingredients; Section 5: Added dirt or sand, and dry chemical, added Unusual Fire and Explosion Hazards; Section 8: Added more STEL detail, changed names of oil ingredients; Section 9: Added flashpoint data; Section 16: Updated with current information and added e-mail address.

Name/Contact for additional information: Amy Ciesielczyk - Phone: 330-379-7867 (U.S.A.) or aciesielczyk@firestonepolymers.com

DISCLAIMER

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