

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: SBR 1903, 1904
Product Number: SBR 1903, 1904
Synonyms: High Styrene Resin/Rubber Masterbatch, Styrene/Butadiene
Copolymer, Crosslinked with Divinyl Benzene
Chemical Name: Styrene/Butadiene Copolymer,
Crosslinked with Divinyl Benzene
Chemical Family: Synthetic Rubber
CAS Number: 26471-45-4

Company Identification

ISP Elastomers
P. O. BOX 667
1215 MAIN ST
PORT NECHES, TEXAS 77651 USA
1-800-962-8324 (For product information)
409-722-8321 (For emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
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BUTADIENE, STYRENE, DIVINYLBENZENE POLYMER	100.0 %	26471-45-4

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

MISCELLANEOUS:

Section 311/312 (40CFR 370) This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA. Section 313 Information (40CFR 372) This product does not contain a chemical which is listed in Section 313 at or above 'de minimis' concentrations.

3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
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* The hazards of this product should be low under
* normal industrial and commercial uses.
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HMIS Rating:

Health - 2, Flammability - 1, Reactivity - 0
Personal Protection Index - B Safety Glasses & Gloves Recommended

NFPA Rating:

Health - 2, Flammability - 1, Reactivity - 0
Special Hazards - N/A

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE:

No hazards expected in normal industrial use at room temperature. Irritating vapors may be formed when product is processed at high temperatures.

SKIN:

Substance may cause slight skin irritation. Contact with product at elevated temperatures can result in thermal burns.

INHALATION:

Irritating vapors may be formed when product is processed at high temperatures. No hazards expected in normal industrial use at room temperature.

INGESTION:

Ingestion is not considered a potential route of exposure.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

MISCELLANEOUS:

Poses little or no immediate hazard.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

SKIN CONTACT FIRST AID:

Wash skin with soap and water. For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.

INGESTION FIRST AID:

Ingestion is not considered a potential route of exposure.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for the surrounding fire. SBR polymers would be considered 'ordinary combustibles' (NFPA defined Class A). Carbon dioxide is not generally recommended for use on Class A fires as a lack of cooling capacity may result in re-ignition.

FIRE & EXPLOSION HAZARDS:

Can ignite spontaneously if temperatures exceed 600 F. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS:

Avoid breathing smoke, fumes, and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

LARGE SPILLS PROCEDURE:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 0 C (32.0 F)
Maximum: 60.0 C (140.0 F)

SHELF LIFE: (in original, sealed containers)

18 months @ 0 C
9 months @ 60.0 C

HANDLING (PERSONNEL):

Use with adequate ventilation. Wash hands thoroughly after handling.
Avoid breathing vapors from heated material.

HANDLING (PHYSICAL ASPECTS):

Avoid extreme temperatures. Store in a cool place in original container
and protect from sunlight.

STORAGE PRECAUTIONS:

Avoid extreme temperatures. Store in a cool place in original container
and protect from sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

Where contact with this material is likely, eye protection is recommended.

SKIN PROTECTION REQUIREMENTS:

For brief contact, normal work attire should be sufficient. Wash hands
thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special
handling equipment is required.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Pellets
COLOR: White
ODOR: Characteristic
BOILING POINT: NA C
VAPOR PRESSURE: NA mm Hg @ 20 C
VAPOR DENSITY: NA (Air = 1)
SOLUBILITY IN WATER: N/A
SPECIFIC GRAVITY: 0.94 - 1.0 typical (Water = 1)
BULK DENSITY: NA
MELTING/FREEZING POINT: NA C
PH: NA
% VOLATILES: 0.75 max, as water % @ 100 C @ 760 mm Hg

10. STABILITY AND REACTIVITY

STABILITY:
Stable.

POLYMERIZATION:
Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS:
There are no known materials which are incompatible with this product.

DECOMPOSITION:
Avoid temperatures above 177C/350F, the onset of polymer decomposition.
Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

MISCELLANEOUS:
There is no toxicology information on this material, however, the components possess irritancy potential.

Material contains FDA compliant stabilizer system.

The concentration of unreacted 1,3-butadiene is typically 1 ppm, maximum.

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:

This product is not considered to be a marine pollutant, however, disposal into marine environments should not be considered an approved disposal method.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: SBR 1903, 1904
D.O.T. SHIPPING NAME: Crude Synthetic Rubber
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: Non-Hazardous
UN NUMBER: N/A
PRODUCT RQ (LBS): N/A
D.O.T. LABEL: Non Hazardous
D.O.T. PLACARD: N/A
BULK CLASS: N/A
PACKAGE CLASS: N/A

15. REGULATORY INFORMATION

MISCELLANEOUS INFORMATION:

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). Not defined or designated as hazardous under Resource Conservation and Recovery Act (RCRA) 40 CFR261. The Toxicity Characteristic Leachate Procedure (TCLP) constituents are below reportable limits.

This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

WHMIS Hazard Symbols:
None

EEC Symbols and Indications of Danger:
None

16. OTHER INFORMATION

REASON FOR ISSUE: New Company Name
PREPARED BY: J. M. KORD
APPROVED BY: Dale Smith
TITLE: Technical Manager
APPROVAL DATE: July 16, 2003
SUPERCEDES DATE: January 13, 2003
RTN NUMBER: 00000145 (Official Copy)

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ISP Elastomers. The data on this sheet are related only to the specific material designated herein. ISP Elastomers assumes no legal responsibility for use or reliance upon these data.

END OF MSDS
