

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

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Product Name: SBR 1713, 1778, 1732N, 1712HN, 1721N  
Product Number: SBR 1713, 1778, 1732N, 1712HN, 1721N  
Synonyms: SBR 1713, 1778, 1732N, 1712HN, 1721N  
Styrene/Butadiene Copolymer, Naphthenic oil extended,  
non-staining  
Chemical Name: Styrene/Butadiene Copolymer, Naphthenic Oil Extended,  
non-staining  
Chemical Family: Synthetic Rubber  
CAS Number: Blend

#### Company Identification

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ISP Elastomers, L.P.  
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)

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### COMPONENT LISTING:

Chemical Name	Amount	CAS Number
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STYRENE, 1,3-BUTADIENE POLYMER	87.0 - 67.0 %	9003-55-8
HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	13.0 - 33.0 %	64742-52-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains no known hazardous materials.

MISCELLANEOUS:

Styrene 1,3-Butadiene copolymer, treated naphthenic oil-extended product is not listed as a skin carcinogen by NTP, OSHA, or IARC.

3. HAZARDS IDENTIFICATION

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

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

NFPA Rating:

Health - 1, 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.

SKIN:

Prolonged or repeated skin contact may cause irritation.

**INHALATION:**

Irritating vapors may be formed when product is processed at high temperatures.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**CARCINOGENICITY INFORMATION:**

The naphthenic oil used in this product has been treated and is not classified as a skin carcinogen by IARC.

The concentration of unreacted 1,3 butadiene in this product is typically 1 ppm, maximum.

**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:**

Will burn if involved in a fire. 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:**

Handle as solid waste. Vacuum or sweep up material and place in a disposal container. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**SMALL SPILLS PROCEDURE:**

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

**7. HANDLING AND STORAGE**

**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 0.0 C (32.0 F)  
Maximum: 60 C (140.0 F)

**SHELF LIFE: (in original, sealed containers)**

18 months @ 0.0 C  
9 months @ 60 C

HANDLING (PERSONNEL):

Avoid breathing vapors from heated material. Avoid prolonged or repeated contact with skin. Wash hands thoroughly after handling.

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. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice,' published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

EYE / FACE PROTECTION REQUIREMENTS:

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

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. 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 .....: Solid  
COLOR .....: Amber  
ODOR .....: Characteristic  
BOILING POINT .....: ND C  
VAPOR PRESSURE .....: NA mm Hg @ 20 C  
VAPOR DENSITY .....: NA (Air = 1)  
SOLUBILITY IN WATER .....: Insoluble in water, soluble in petroleum  
distillates  
SPECIFIC GRAVITY .....: 0.94 - 0.97 (Water = 1)  
BULK DENSITY .....: NA  
MELTING/FREEZING POINT ...: ND C  
PH .....: ND  
% VOLATILES .....: 1.00, 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:  
Decomposition will not occur if handled and stored properly. 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. The naphthenic oil has been  
treated and is not classified as a skin carcinogen by IARC.

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 1713, 1778, 1732N, 1712HN, 1721N  
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) .....: NA  
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 is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS). This material or all of its components are listed on the Canadian Domestic Substances List (DSL).

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 ...: Review for Content  
PREPARED BY .....: Joan M. Kord  
APPROVED BY .....: Dale Smith  
TITLE .....: Technical Manager  
APPROVAL DATE .....: May 14, 2008  
SUPERCEDES DATE ....: July 16, 2003  
RTN NUMBER .....: 00000144 (Official Copy)

ADDITIONAL INFORMATION:

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

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

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END OF MSDS  
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