

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: SBR 1009 Crumb, 1009AF Crumb, 4503 Crumb
Product Number: SBR 10090C2, 1009AF2, 45030A2
Synonyms: Synthetic Rubber, Crumb Form,
(Crosslinked with Divinyl Benzene)
Chemical Name: Styrene/Butadiene Copolymer
Crosslinked with Divinyl Benzene
Chemical Family: Synthetic Rubber, Crumb Form
CAS Number: 26471-45-4

Company Identification

ISP Elastomers, LP
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 (CHEMPREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
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BUTADIENE, STYRENE, DIVINYLBENZENE POLYMER	88.0 - 100.0 %	26471-45-4
CALCIUM CARBONATE	0.0 - 12.0 %	1317-65-3

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
*
* Nuisance Particulates. May cause skin or eye *
* irritation after repeated or prolonged contact. *
* *

HMIS Rating:

Health - 1, Flammability - 1, Reactivity - 0
Personal Protection Index - B Safety Glasses 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:

This is a granular product. Dust may be irritating to the eye.

SKIN:

Substance may cause slight skin irritation.

INHALATION:

Dust may be slightly irritating to respiratory tract. Prolonged or excessive inhalation may cause coughing or sneezing.

INGESTION:

Ingestion is not considered a potential route of exposure.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

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.

INHALATION FIRST AID:

If exposed to excessive levels of dust, remove to fresh air.

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):

If excessive dust is created, wear dust mask or respirator to keep exposure below the Permissible Exposure Level for particulate matter.

INITIAL CONTAINMENT:

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

LARGE SPILLS PROCEDURE:

Wear a self-contained breathing apparatus and appropriate Personal protection (See Exposure Controls, Personal Protection section). The very fine particles can cause a fire or explosion, eliminate all ignition sources.

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)

12 months @ 0 C
6 months @ 60.0 C

HANDLING (PERSONNEL):

Use with adequate ventilation. Minimize dust generation and accumulation. 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:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Use Local exhaust ventilation with a minimum capture velocity of 100 ft/min(0.5 m/sec) at the point of vapor evolution. 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:

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

RESPIRATORY PROTECTION REQUIREMENTS:

If airborne concentrations exceed the OSHA TWA, a NIOSH approved dust mask is recommended.

EXPOSURE GUIDELINES:

No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM	Crumb
COLOR	Light Amber
ODOR	Characteristic
BOILING POINT	NA C
VAPOR PRESSURE	NA psia @ 20 C
VAPOR DENSITY	NA (Air = 1)
SOLUBILITY IN WATER	N/A
SPECIFIC GRAVITY	0.91 - 0.96 (Water = 1)
BULK DENSITY	NA
MELTING/FREEZING POINT ...	NA C
PH	NA
% VOLATILES	1.00 max, as water, % @ 100 C

10. STABILITY AND REACTIVITY

STABILITY:

Materials containing similar structural groups are normally 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.

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

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

SBR 1009 Crumb, 1009AF Crumb, 4503 Crumb
RTN Number: 00000007

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: SBR 1009 Crumb, 1009AF Crumb, 4503 Crumb
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

S-Phrases:

S36/37 - Wear suitable protective clothing and gloves.

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16. OTHER INFORMATION

REASON FOR ISSUE ...: Review for Content
PREPARED BY: JOAN M. KORD
APPROVED BY: Dale Smith
TITLE: Technical Manager
APPROVAL DATE: May 15, 2008
SUPERCEDES DATE: July 16, 2003
RTN NUMBER: 00000007 (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, 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.

END OF MSDS
