

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: SBR 1606, 1847, 1848, 4684, 4689
Styrene/Butadiene Copolymer, Carbon Black Masterbatch,
Aromatic Oil Extended
Product Number: SBR 1606, 1847, 1848, 4684, 4689
Synonyms: SBR, Carbon Black Masterbatch, Aromatic Oil Extended
Chemical Name: Styrene/Butadiene Copolymer, Carbon Black Masterbatch,
Aromatic Oil Extended
Chemical Family: Synthetic Rubber
CAS Number: Blend

Company Identification

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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% SBR 1606, 1847, 1848, 1850, 1851, 4684, 4689 Styrene/Butadiene Copolymer,
Carbon Black Masterbatch, Aromatic Oil Extended

SBR 1606, 1847, 1848, 4684, 4689

RTN Number: 00000025

CONTAINING:

HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number
ASTM D226 TYPE 101 AROMATIC OIL	1.7 - 27.0 %	64742-04-7
CARBON BLACK	26.0 - 40.5 %	1333-86-4

NON-HAZARDOUS COMPONENTS

Chemical Name	Amount	CAS Number
STYRENE, 1,3-BUTADIENE POLYMER	40.8 - 69.0 %	9003-55-8

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

MISCELLANEOUS:

Aromatic Oil, Type 101 has been classified by IARC as a skin carcinogen in mice; however, the carcinogenic potential of polymeric material containing this oil has not been established.

The carbon black in this product is bound in the polymer matrix and is not a free, airborne powder.

The exposure level for carbon black as a free, airborne powder is PEL/TLV 3.5 mg/m3.

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 - 2, Flammability - 1, Reactivity - 0

Personal Protection Index - B Safety glasses and Gloves Recommended

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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

SKIN:

Prolonged or repeated skin contact may cause irritation. Skin contact with molten or heated polymer can cause serious burns.

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:

Aromatic Oil is listed by IARC and NTP as a skin carcinogen in mice; however the carcinogenic potential of polymeric material containing this oil has not been established.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately 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.

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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:

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.

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: 0.0 C (32.0 F)
Maximum: 37.8 C (100.0 F)

SHELF LIFE: (in original, sealed containers)

18 months @ 0.0 C
9 months @ 37.8 C

HANDLING (PERSONNEL):

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

HANDLING (PHYSICAL ASPECTS):

Do not store at temperatures above 49°C.

STORAGE PRECAUTIONS:

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. 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:

This material does not have established exposure limits.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

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

EXPOSURE GUIDELINES:

CARBON BLACK

OSHA PEL: 3.5 mg/m³
OSHA TWA: 3.5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid
COLOR: Black
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: 1.10 - 1.14 (Water = 1)
BULK DENSITY: NA
MELTING/FREEZING POINT: ND C
PH: ND
% VOLATILES: 1.00 % @ 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.

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

12. ECOLOGICAL INFORMATION

No information available.

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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 1606, 1847, 1848, 4684,4689,
Styrene/Butadiene Copolymer, Carbon Black
Masterbatch, Aromatic Oil Extended
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 (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS).

This material or all of its components are listed on the Canadian Domestic Substances List (DSL).

WHMIS Hazard Symbols:
None

Canadian Disclosure List
CARBON BLACK (1333-86-4)

EEC Symbols and Indications of Danger:
Toxic (T)

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R-Phrases:

R45 - May cause cancer.

S-Phrases:

S53 - Avoid exposure. Obtain special instructions before use.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

REASON FOR ISSUE ...: Deleted Product
PREPARED BY: JOAN M. KORD
APPROVED BY: Dale Smith
TITLE: Technical Manager
APPROVAL DATE: May 14, 2008
SUPERCEDES DATE: April 18, 2006
RTN NUMBER: 00000025 (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
