



171 West St. Charles Road, Carol Stream, IL 60188-2081 / 630-784-6200 / Fax: 630-784-6201

PRODUCT SAFETY INFORMATION SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: BF-2000 Series

CHEMICAL FAMILY: Silicone Rubber

HMIS RATING: H 0 F 1 R 0

USE OF MATERIAL: Gasket Material, Fire Retardant Insulation, Vibration Isolation in Vehicles

DATE PREPARED: March 6, 2015

COMPANY/UNDERTAKING IDENTIFICATION: Rogers Corporation
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Carol Stream, IL 60188-2081
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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE

LABELING REQUIREMENTS: NE

EFFECTS OF OVEREXPOSURE: None are expected with normal handling. Materials listed in Section 2 are encapsulated or compounded making release unlikely. Cutting and other finishing operations may create dust. Ventilation and personal protective equipment should be similar to operations generating nuisance dust.

INHALATION: Dusts may cause respiratory irritation.

EYE CONTACT: Dusts may cause irritation.

SKIN CONTACT: Dusts may cause irritation.

INGESTION: None known.

CHRONIC: The IARC has listed carbon black as a Class 2B possible human carcinogen based on animal studies. Silica is listed by NTP as "reasonably anticipated to be a carcinogen". However, the silica in this material is encapsulated eliminating this hazard during normal processing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is produced as an "article" as defined in 20 CFR 1910.1200 and is therefore exempt from the Hazard Communication Standard. Since this material does not release chemicals and will not result in exposure to a hazardous chemical under normal conditions of use, no Material Data Sheet is required. This form is provided as a convenience to our customers.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS</u> <u>/ELINCS</u>	<u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>China</u> <u>OEL</u>	<u>EU</u> <u>Classification</u>
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Carbon Black (Present in black material)	1333-86-4	215-609-9	<1	3.5 mg/m ³	3.5 mg/m ³	4 mg/m ³	NC according to 67/548/EEC
Alumina Hydrate	21645-51-2	244-492-7	<2	5 mg/m ³ (resp)	3 mg/m ³ (resp)	NE	NC according to 67/548/EEC
Silica (Encapsulated)	14808-60-7	238-878-4	<4	$\frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2 + 2}$ (Resp)	0.1 mg/m ³ (Resp)	NE	Not classified under 67/548/EC

4. FIRST-AID MEASURES

INHALATION:	Remove to fresh air. Obtain medical attention if symptoms persist.
EYE CONTACT:	Flush eyes with large amounts of water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
SKIN CONTACT:	Immediately take off all contaminated clothing and flush area with soap and water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
INGESTION:	Not a likely route of exposure. If large amounts of processing dusts are ingested resulting in gastrointestinal discomfort, seek medical attention.

5. FIRE-FIGHTING MEASURES

FLASH POINT:	NA	Flammable Limits:	LEL	<u>NE</u>	UEL	<u>NE</u>
AUTOIGNITION TEMPERATURE:	NA					
EXTINGUISHING MEDIA:	<u> X </u> Water Spray	<u> X </u> Foam	<u> X </u> CO ₂			
	<u> X </u> Dry Chemical	<u> </u> Other –				
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.					
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Decomposition in a fire may produce toxic fumes and siliceous char.					

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear suitable protective equipment. Wear self-contained breathing apparatus and heavy rubber gloves. Avoid contact with skin and eyes.
ENVIRONMENTAL PRECAUTIONS:	Prevent from entering sewer system, surface water or soil.
CLEANING METHODS:	Pick up larger solid materials. Use broom and dust pan to collect smaller pieces. Dispose of properly.

7. HANDLING AND STORAGE

HANDLING:	Wear suitable protective equipment (refer to Section 8). Wash hands with soap and water after handling. Avoid processing conditions that release small particles of materials (10 micrometers or less).
STORAGE:	Keep container tightly closed in a dry, cool, and well-ventilated area.

8. ENGINEERING CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	None needed under normal conditions. If material is heated and odors are noticeable and/or irritating, a respirator meeting NIOSH requirements should be used. A qualified individual should evaluate each situation.
<u>VENTILATION</u>	
LOCAL:	Recommended for all industrial operations.
GENERAL:	Recommended for all industrial operations.
<u>PERSONAL PROTECTION</u>	
HAND:	None required.
EYE:	Safety glasses are recommended with all industrial operations.
SKIN:	None required.
OTHER:	Safety shower/eyewash in the area if possible tissue exposure to materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Cellular silicone material. Various Colors.
ODOR:	Slight characteristic
PHYSICAL STATE:	Solid
BOILING POINT:	NA °C (°F)
MELTING POINT:	NE °C (°F)
FREEZING POINT:	NA °C (°F)
WATER SOLUBILITY:	NE °C (°F)
VAPOR PRESSURE:	In-soluble
SPECIFIC GRAVITY:	1.1 -1.4 (Water = 1)
PARTITION COEFIECIENT:	NA
EXPLOSIVE PROPERTIES:	NA
EVAPORATION RATE:	NA
DENSITY:	1.1 – 1.4 g/cc
VISCOSITY:	N/A
IGNITION TEMPERATURE:	NA
PH:	NA °C (°F)
FLAMMABILITY:	NA °C (°F)
OXIDIZING PROPERTIES:	NA

10. STABILITY AND REACTIVITY

STABLE	<input checked="" type="checkbox"/>	UNSTABLE	<input type="checkbox"/>
CONDITIONS TO AVOID:	<input type="checkbox"/>	NE	
MATERIALS TO AVOID:	<input type="checkbox"/>	NE	
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/>	May Occur	<input checked="" type="checkbox"/> Does Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:		Carbon monoxide, carbon dioxide, formaldehyde, silicon dioxide, and traces of partially burned carbon compounds.	

11. TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC:	NE
REPRODUCTIVE HAZARDS:	NE
CARCINOGENIC STATUS:	Silica is listed by NTP as reasonably anticipated to be a carcinogen". However the silica in this material is encapsulated eliminating this hazard during normal processing. The IARC has listed Carbon Black as a Class 2B possible human carcinogen based on animal studies.

12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATION

ENVIRONMENTAL TOXICITY DATA:	NA
WASTE DISPOSAL METHOD:	Dispose of in accordance with applicable, federal, state, provincial, and local laws and regulations.

CONTAINER DISPOSAL: Dispose of in accordance with applicable, federal, state, provincial, and local laws and regulations.

14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated
UN PROPER SHIPPING NAME: Not Regulated
HAZARD CLASS (ES): Not Regulated
PACKING GROUP: Not Regulated
ENVIRONMENTAL HAZARDS: Not Regulated

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:
Canadian (DSL/NDSL): Listed
Australian (ACIS): Listed
Korea (KECI): Listed
China (IECSC): Material is Classified as an Article.
Japan (ENCS, MITI): Listed
REACH Directive: Material is Classified as an Article.
EU Directive 2011/65/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.

European:
Symbol: Not classified according to directive 1999/45/EC & 2001/60/EC (dangerous preparations).

R-Phase(s): NA
S-Phase(s): NA
TSCA: All ingredients listed on TSCA or exempt. Materials are classified as Article.
(Toxic Substances Control Act):

CERCLA: NA
(Comprehensive Emergency Response, Compensation, and Liability Act):
SARA TITLE III: NA
(Superfund Amendments and Reauthorization Act):

311/312 HAZARD CATEGORIES: None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
NA	NA	NA

16. OTHER INFORMATION

NA = Not Applicable
NE = Not Established
NC = Not Classified

FILE: 99199-BF2000 Series PSIS-03062015.doc
99199
PREPARED BY: Michal Werbecki
REVIEWED BY: Curtis Kempton

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