



PRODUCT SAFETY INFORMATION SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME: BF-2005 (A) & (S) Series

CHEMICAL FAMILY: Silicone Rubber

HMIS RATING: H 0 F 1 R 0

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

DATE ISSUED: March 5, 2015

COMPANY/UNDERTAKING IDENTIFICATION: Rogers Corporation
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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: Dust may cause respiratory irritation.

EYE CONTACT: Dust may cause irritation. Flush eyes with water and seek medical attention if necessary.

SKIN CONTACT: Dust may cause irritation. Wash thoroughly with soap and water.

INGESTION: None known.

CHRONIC: IARC has listed carbon black as a Class 2B suspected human carcinogen based on tests with laboratory animals.
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 REGULATION (EC) N° 1907/2006 is therefore exempt from the Hazard Communication Standard and REACH. Since this material does not release and will not result in exposure to a hazardous chemical under normal conditions of use, no Safety Data Sheet is required.

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>EINECS /ELINCS</u> | <u>%</u> | <u>OSHA PEL</u> | <u>ACGIH TLV (AS AL)</u> | <u>China OEL</u> | <u>EU Classification</u> |
|-------------------------------------|----------------|---------------------------|----------|---|----------------------------------|----------------------|-----------------------------------|
| Alumina Trihydrate | 21645-51-2 | 244-492-7 | <2 | 15 mg/m ³ (Total Dust) | 10 mg/m ³ | NE | Not Classified Under 67/548/EC |
| Carbon Black (In Black Material) | 1333-86-4 | 215-609-9 | <1 | 3.5 mg/m ³ | 3.5 mg/m ³ | NE | NC According to 67/548/EEC |
| Silica (encapsulated) | 14808-60-7 | 238-878-4 | <4 | <u>10 mg/m³</u> % SiO ₂ + 2 (Resp.) | 0.1 mg/m ³ (Rep) | NE | Not Classified under 67/548/EC |

4. FIRST-AID MEASURES

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| 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 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 °C (°F) | Flammable Limits: | LEL | NA | UEL | NA |
| AUTOIGNITION TEMPERATURE: | NA °C (°F) | | | | | |
| EXTINGUISHING MEDIA: | <u>X</u> Water Spray | <u>X</u> Foam | <u>X</u> CO ₂ | | | |
| | <u>X</u> Dry Chemical | 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

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| 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

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| 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 in a cool, well-ventilated area. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 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: | Gloves to avoid skin contact if desired. |
| EYE: | Safety glasses with side-shields are recommended in all industrial operations |
| SKIN: | None Required |
| OTHER: | Safety shower/eyewash in the area. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE: | Cellular silicone material. Various Colors. |
| ODOR: | Characteristic |
| PHYSICAL STATE: | Solid |
| BOILING POINT: | NA °C (°F) |
| MELTING POINT: | NE °C (°F) |
| FREEZING POINT: | NA °C (°F) |
| FLASH POINT: | NE °C (°F) |
| WATER SOLUBILITY: | In-Soluble |
| VAPOR DENSITY: | NA |
| VAPOR PRESSURE: | NA |
| SPECIFIC GRAVITY: | 1.1 – 1.4 (Water = 1) |
| PARTITION COEFFICIENT: | NA |
| EVAPORATION RATE: | NA |
| RELATIVE DENSITY: | 1.1 – 1.4 G/CC |
| VISCOSITY: | NA |
| AUTO-IGNITION TEMPERATURE: | NA °C (°F) |
| DECOMPOSITION TEMPERATURE: | NA °C (°F) |
| PH: | NA |
| FLAMMABILITY: | NA |

10. STABILITY AND REACTIVITY

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|--|--|
| STABLE <input checked="" type="checkbox"/> | UNSTABLE <input type="checkbox"/> |
| CONDITIONS TO AVOID: | NE |
| MATERIALS TO AVOID: | 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

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| CARCINOGENIC STATUS: | IARC has listed carbon black as a Class 2B suspected human carcinogen based on tests with laboratory animals. 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. |
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12. ECOLOGICAL INFORMATION

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| ECOTOXICITY: | NA |
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13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES: None
AFFECTING DISPOSAL:
ENVIRONMENTAL TOXICITY DATA: NA
WASTE DISPOSAL METHOD: 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: NE

15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:
Canadian (DSL/NDSL): Listed
Australian (ACIS): Listed
Korea (KECI): Listed
Japan (ENCS, MITI): Listed
China (IECSC): Article – exempt.
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 materials are listed or exempt from TSCA listing.
(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: 99308-BF2005 A & S Series PSIS-03052015
99308

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Date Prepared: 03/05/2015

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