

Date Prepared: May 1, 2015

1. **Product and Company Identification**

RJ Stacey Ltd.
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| | |
|----------------------|---------------------------|
| Product Name: | RJS-402-CF |
| Product Type: | Semi Cured Rubber |
| Product Description: | Black Rubber |
| General Use : | Injectable Rubber Sealant |

2. **Hazards Identification**

GHS Classification : Eye Irritation, 2B

GHS Label Elements :

Signal Word : Warning



Hazard Statements:

H315 / 320 May cause Skin and Eye Irritation
H335 May cause respiratory irritation (heated vapors)

Precautionary Statements :

P261 Avoid breathing heated vapors
P262 Do not get in eyes, on skin, or on clothing
P285 In case of inadequate ventilation (heated vapors) wear respiratory protection
P281 Use personal protective equipment as required
P301/P310 If Swallowed: Immediately call a Poison Center or Physician
P333/P313 If skin irritation develops: Get medical attention.
P302/P352 If on skin: Wash with plenty of soap and water
P305/P351/P338 If in eyes : Rinse cautiously with water for several minutes.
Remove contact lenses if easy to do. Continue Rinsing.
P337/P313 If eye irritation persists: Get medical attention
P342/P311 If experiencing respiratory symptoms (heated vapors) : Get medical attention.
P233 Keep container tightly closed
P501 Dispose of observing all Federal, State and Local regulations.

EMERGENCY OVERVIEW : This product as shipped is not anticipated to present a significant threat to human health or the environment.

NOTE: THIS PRODUCT IN ITS PURCHASED FORM DOES NOT PRESENT AN INHALATION HAZARD FROM FIBERS OR DUST AS IT IS A SOLID RUBBER COMPOUND. FIBERS AND DUST ARE NOT AIRBORN UNDER NORMAL HANDLING.

3. Composition / Information on Ingredients

| Ingredients | CAS No. | % by weight |
|--|------------|-------------|
| Carbon Black | 1333-86-4 | 1-25 |
| Carbon Fiber | 7440-44-0 | 1-25 |
| Zinc Oxide | 1314-13-2 | <5 |
| Severely Hydrotreated Heavy, Napthenic Process Oil | 64742-52-5 | 1-25 |
| Kaolin (hydrous aluminum silicate) | 1332-58-7 | 25-50 |
| Hydrotreated heavy parrafinic distillate | 64742-54-7 | 1-25 |

4. First Aid Measures

Ingestion: DO NOT INGEST. Oral toxicity not determined.
Call a physician or get medical help immediately.

Inhalation: Remove to fresh air. If symptoms persist,
seek medical attention.

Skin Contact: Wash with soap and water, consult physician if
irritation develops.

Eye Contact: Flush with water 15 minutes. If symptoms persist,
seek medical attention.

5. Fire Fighting Measures

Recommended Extinguishing Agent:
Foam, Dry Chemical, Carbon Dioxide, Water Fog

Special Fire Fighting Procedures:
Self contained breathing apparatus and protective clothing
should be worn in fighting fires involving chemicals.
(Professionally Trained Personnel).

Hazardous Products Formed by Fire
or Thermal Decomposition:
CO, CO2, partially oxidized hydrocarbons

Unusual Fire or Explosion Hazards: None

Compressed Gases: None

Pressure at Room Temperature: Does not apply

6. Accidental Release Measures

Steps to be taken in cases of
spill or leak:
Wear proper personal protective equipment. Remove any sources of
ignition from the area and allow hot surfaces to cool. Return
uncontaminated material to metal container and seal container tightly.
Dispose of contaminated material or waste.

7. Handling and Storage

Storage: Cool, dry, storage below 90 degrees F. Store in closed containers.
Refrigerate for best shelf life.

Handling: Avoid contact with skin and eyes. Do not breathe heated vapors. This
product in its purchased form does not create an inhalation hazard
from fibers or dust. If grinding or sanding or any other process is
performed to this compound will cause airborne particles wear
appropriate respirator to avoid breathing any dust or vapors.
Wear appropriate safety gear as required in work area.

8. Exposure Controls / Personal Protection

| Exposure Limits Ingredients | ACGIH (TLV) | OSHA (PEL) | OTHER |
|--|-------------------------------------|-----------------------------------|-------|
| Carbon Black | 3.5 mg/m3 TWA | 3.5 mg/m3 TWA | |
| Carbon Fiber | N/E | N/E | |
| Zinc Oxide | 2 mg/m3 TWA | 15 mg/m3 TWA | |
| | 10 mg/m3 STEL (respirable fraction) | 5 mg/m3 TWA (respirable fraction) | |
| Severely Hydrotreated Heavy, Napthenic Process Oil | 10 mg/m3 | 5mg/m3 TWA (oil mist) | |
| Kaolin (hydrous aluminum silicate) | 2 mg/m3 TWA | 15 mg/m3 TWA | |
| Hydrotreated heavy parraffinic distillate | 5 mg/m3 TWA (oil mist) | 5 mg/m3 TWA (oil mist) | |
| | 10 mg/m3 STEL TWA (oil mist) | | |

Personal Protective Equipment (PPE)

Eyes: Safety Glasses
Full face shield recommended. (during injection process)

Skin: Work gloves.

Respiratory Protection:
NIOSH approved for organic vapors and dust if needed.

Other Protective Clothing or Equipment:

Coveralls or other protective clothing. Safety equipment as required in area.

Work / Hygienic Practices:

Avoid contact with skin. Wash hands before eating.

Engineering Controls : Ventilation: Local exhaust if poorly ventilated area or in confined spaces.
Ventilation should be provided during heat up to exhaust organic vapors resulting from vaporization of certain organic agents

9. Chemical and Physical Properties

Appearance: Black Rubber
Odor: Rubber Odor
pH: 7.1
Solubility in Water: NIL
Specific Gravity: 1.2 (compressed, uncured) (H2O =1)
Evaporation Rate: Not Applicable
Boiling Point: Not Applicable
Melting Point: Not Applicable
Vapor Pressure: Not Applicable
Vapor Density: Not Established
VOC Content: None
Flash Point: over 572⁰ F. Method: Cleveland Open Cup

Flammable Limits:

LEL: Not Established
UEL: Not Established

10. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition
Or By-Products: CO, CO2, partially oxidized hydrocarbons
Incompatibility: Strong Oxidizers and Some Acids

11. Toxicology Information

Primary Routes of Entry: Inhalation and contact.
Signs and Symptoms of Overexposure: **Inhalation:** respiratory irritation from heated vapors.
Eyes: Irritation.
Skin: Possible irritation with prolonged contact.

Existing Conditions Aggravated by Exposure: Pre-existing skin condition if prolonged exposure to skin. (Wear chemical resistant gloves)

Carcinogenicity

NTP: None
IARC: Carbon Black 2B
OSHA Regulated: NO
Toxicity : Zinc Oxide LD₅₀ Mouse 7950 mg/kg
Carbon Black LD₅₀ rat >8000 mg/kg
Hydrotreated heavy paraffinic distillate LD₅₀ rat >5000 mg/kg

Acute Health Hazards: **Skin:** Possible irritation with prolonged contact.
Inhalation: Irritation if breathing heated vapors.
Eyes: Irritation.

Chronic Health Hazards: None Known

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12. Ecological Information

No information is available.

13. Disposal Considerations

Recommended Methods of Disposal:
RCRA 40 CFR 261 Classification : This product as purchased does not fall under current US EPA RCRA definitions of Hazardous Waste.
Certain state regulations could affect whether a material is considered a hazardous waste upon disposal. It must also be noted that a material can become a hazardous waste if it is mixed with or comes in contact with a hazardous substance during use. Under RCRA it is the responsibility of user of a product to determine at the time of disposal, whether a material should be classified as a hazardous waste.

14. Transport Information

DOT (49 CFR 172): Not Regulated

IATA : Not Regulated

Liquid / Solid (per ASTM D 4359-90) : Material is a solid

15. REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product does not contain any SARA 302 Extremely Hazardous Substances.

SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): Certain ingredients of this product are regulated under Sara Title III Section 311/312, see section 3 of this MSDS.

SARA TITLE III SECTION 313 (40 CFR Part 372): Zinc Oxide (Zinc Compounds)

U.S. INVENTORY (TSCA): Any chemical substances (as defined in 40 CFR Part 710.2), that are contained in, or used in the manufacture of this product, are reported in the EPA TSCA Inventory. (As required per 40 CFR 710.3)

CALIFORNIA PROPOSITION 65: None

CANADA WHMIS: Ingredient Disclosure List : Carbon Black, Zinc Oxide. WHMIS Classification : Carbon Black D2A, D2B

EUROPEAN UNION : Carbon Black ;CLP Carc.2, Zinc Oxide : CLP Aquatic Acute1-Chronic1, Kaolin : CLP STOT SE3 ,
Severely Hydrotreated Heavy, Napthenic Process Oil : CLP Carc.1,
Hydrotreated heavy paraffinic distillate : CLP Carc.1

OZONE DEPLETERS: * This product is not manufactured with or contains any Class I or Class II Ozone Depleting Chemicals. (ODC's)

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16. OTHER INFORMATION

The information contained in this MSDS sheet is based upon data supplied by our suppliers and data determined by us in our facilities at the time these products were formulated. We have reviewed any information that we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety data in this sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. If after reviewing this MSDS you have determined that this product poses unusual risks to you, your plant, or your plant personnel, or if you cannot comply fully with all safety recommendations, do not use this product. This product is intended for a temporary repair. The responsibility for whether or not the product is suitable for use rest solely with the purchaser. We recommend that the product be tested prior to use. Your use of this information is beyond our control, therefore, the information is provided without warranty expressed or implied. We accept no liability beyond the purchase price of the material.

Estimated HMIS® Code:

| | |
|----------------------|---|
| Health Hazard: | 1 |
| Flammability Hazard: | 0 |
| Physical Hazard: | 0 |

Personal Protection: NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

Attn: Technician

(For industrial use by professionally trained personnel only) Steps should be taken to insure that the injection pressure in conjunction with pressure that may occur from gassing off of the compound does not exceed the pressure limitations of the piping system. If the compound is gassing off, gasses should be vented. Also, be aware it is quite common that the application temperature will exceed the compound flash point. Be aware of the possibility of a flash and take necessary precautions. See section 8 of SDS for personal protective equipment. Ventilation may be needed during heating/curing stage to exhaust organic vapors resulting from vaporization of certain organic agents. Always avoid direct contact with heated vapors being emitted from the compound. These vapors may be irritating to the skin, eyes and respiratory system. Read product technical data and safety information before use.

PREPARATION INFORMATION

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|----------------|----------------------|
| Prepared By: | Safety Department |
| Company: | RJ Stacey Ltd. |
| Revision Date: | 05-01-15 Revision: D |

