



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Brake Caliper Synthetic Grease

Product Number (s): 05351 – 05359, 85352

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

| | |
|----------------------------|----------------|
| General Information | (215) 674-4300 |
| Technical Assistance | (800) 521-3168 |
| Customer Service | (800) 272-8963 |
| 24-Hr Emergency (CHEMTREC) | (800) 424-9300 |

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Dark grey semi-solid grease with a faint odor

As defined by OSHA's Hazard Communication Standard, this product is nonhazardous.

Potential Health Effects:

EYE: May cause irritation.

SKIN: Repeated or prolonged contact can result in drying of the skin.

INHALATION: Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

INGESTION: Can cause stomach ache and vomiting.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure:

Skin or respiratory conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|--|-------------------|-----------------|
| Medium polyalphaolefins | 68037-01-4 | 50 - 70 |
| Fatty acids, C5-C10, esters w/ pentaerythritol | 68424-31-7 | 10 - 20 |
| Siliconized silica | 67762-90-7 | 7 - 13 |
| Molybdenum Disulfide | 1317-33-5 | 1 – 5 |
| Natural Graphite | 7782-42-5 | 1 – 5 |
| Zinc, dithiophosphate di-C1-14-alkyl esters | 68649-42-3C | 1 – 2 |
| Crystalline silica, quartz | 14808-60-7A | < 0.2 |

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Seek medical attention.

Note to Physicians: None available

Section 5: Fire-Fighting Measures

Flammable Properties: This product is nonflammable.

| | | | |
|---------------------------|---------------|------------------------|----|
| Flash Point: | > 350 F (COC) | Upper Explosive Limit: | ND |
| Autoignition Temperature: | ND | Lower Explosive Limit: | ND |

Suitable Extinguishing Media: Foam, CO2, Dry chemical, Sand, Dolomite

Products of Combustion: Acrid smoke / fumes, Oxides of carbon, Sulfur

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep container away from heat, sparks, and open flame. High temperatures may produce irritating vapors. Eye wash station should be available at work place.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store separated from acids and oxidizing materials.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| COMPONENT | OSHA | | ACGIH | | OTHER | | UNIT |
|---|------|------|-------|------|-------|--------|-------------------|
| | TWA | STEL | TWA | STEL | TWA | SOURCE | |
| Medium polyalphaolefins | NE | NE | NE | NE | NE | | |
| Fatty acids, C5-C10, esters w/pentaerythritol | NE | NE | NE | NE | NE | | |
| Siliconized silica | 6 | NE | 10 | NE | NE | | mg/m ³ |
| Molybdenum disulfide | NE | NE | 10 | NE | NE | | mg/m ³ |
| Natural graphite | 15 * | NE | 2 | NE | 2.5 | NIOSH | mg/m ³ |
| Zinc, dithiophosphate di-C1-14-alkyl esters | NE | NE | NE | NE | NE | | |
| Crystalline silica, quartz | 0.3 | NE | 0.025 | NE | NE | | mg/m ³ |
| * mppcf (millions of particles per cubic foot of air) N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated | | | | | | | |

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

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Skin Protection: Use protective gloves such as latex or nitrile. Also , use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: semi-solid grease

Color: dark grey

Odor: mild

Specific Gravity: 0.90 @ 60 F

Initial Boiling Point: ND

Freezing Point: ND

Vapor Pressure: < 0.1 mmHg @ 68 F

Vapor Density: > 0.5 (air = 1)

Evaporation Rate: < 1 (butyl acetate = 1)

Solubility: Insoluble in water

pH: NA

Volatile Organic Compounds: wt %: 1.5 g/L: 14 lbs./gal: 0.12

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat

Incompatible Materials: Avoid contact with acids and oxidizing substances.

Hazardous Decomposition Products: Oxides of carbon, Sulfur

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

| <u>Component</u> | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|--------------------------|-------------|---------------|--------------|----------------|
| Medium polyalphaolephins | LD50 | > 2000 mg/kg | Oral | Rat |
| Medium polyalphaolephins | LD50 | > 2000 mg/kg | Dermal | Rabbit |

CHRONIC EFFECTS

Carcinogenicity:

| | <u>Component</u> | <u>Result</u> |
|-------|--------------------|---------------------------------|
| OSHA: | Crystalline silica | Hazard communication carcinogen |
| IARC: | Crystalline silica | 1 – carcinogenic to humans |
| NTP: | Crystalline silica | known carcinogen |

Mutagenicity: None available

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Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: None available
Persistence / Degradability: None available
Bioaccumulation / Accumulation: None available
Mobility in Environment: None available

Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

| | |
|-----------------------|----|
| Fire Hazard | No |
| Reactive Hazard | No |
| Release of Pressure | No |
| Acute Health Hazard | No |
| Chronic Health Hazard | No |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Zinc compounds (< 2%)

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Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Crystalline silica

State Right to Know:

New Jersey: 14808-60-7, 1317-33-5,
Pennsylvania: 14808-60-7, 7782-42-5
Massachusetts: 14808-60-7, 1317-33-5, 7782-42-5
Rhode Island : 14808-60-7, 7782-42-5

Additional Regulatory Information: None

Section 16: Other Information

| | | | | |
|-------|-----------|-----------------|---------------|--------|
| NFPA: | Health: 1 | Flammability: 1 | Reactivity: 0 | |
| HMIS: | Health: 1 | Flammability: 1 | Reactivity: 0 | PPE: B |

Prepared By: Michelle Rudnick
CRC #: 2965
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Changes since last revision: Sections 3, 8, 9, 11, & 15

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

| | | | |
|-------|--|-----------|---------------------------|
| CAS: | Chemical Abstract Service | NA: | Not Applicable |
| ppm: | Parts per Million | ND: | Not Determined |
| TCC: | Tag Closed Cup | NE: | Not Established |
| PMCC: | Pensky-Martens Closed Cup | g/L: | grams per Liter |
| PPE: | Personal Protection Equipment | lbs./gal: | pounds per gallon |
| TWA: | Time Weighted Average | STEL: | Short Term Exposure Limit |
| OSHA: | Occupational Safety and Health Administration | COC: | Cleveland Open Cup |
| ACGIH | American Association of Governmental Industrial Hygienists | | |
| NIOSH | National Institute of Occupational Safety & Health | | |