**CRC** MATERIAL SAFETY DATA SHEET

### Section 1: Product & Company Identification

Product Name: Brake Caliper Synthetic Grease

Product Number (s): 05351, 05353, 05354, 05359, 75353, 75359

Product Use: Lubricating grease for brakes

Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 1-215-674-4300(General) (800) 521-3168 (Technical) (800) 272-4620 (Customer Service) In Canada: CRC Canada Co. 2-1246 Lorimar Drive Mississauga, Ontario L5S 1R2 <u>www.crc-canada.ca</u> 1-905-670-2291 In Mexico: CRC Industries Mexico Av. Benito Juárez 4055 G Colonia Orquídea San Luís Potosí, SLP CP 78394 www.crc-mexico.com 52-444-824-1666

24-Hr Emergency - CHEMTREC: (800) 424-9300 or (703) 527-3887

### Section 2: Hazards Identification

#### Emergency Overview

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

#### Potential Health Effects:

ACUTE 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.

### 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, guartz	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:	Treat symptomatically.

## Section 5: Fire-Fighting Measures

Flammable Properties:	As defined by OSHA, this product	is nonflammable.	
	t: > 350°F / >177°C (COC)	Upper Explosive Limit:	ND
Autoignition Temperature	e: ND	Lower Explosive Limit:	ND
Fire and Explosion Data:			
Suitable Extinguishing Media	a: Foam, CO2, dry chemical, san	d, dolomite	
Products of Combustion: A	crid smoke/fumes; oxides of carbo	on, sulfur	
Explosion Hazards: 0	Containers, when exposed to heat	from fire, may build pressur	e and rupture.
Protection of Fire-Fighters:	Firefighters should wear self-con protection against suffocation ar skin protection should be provid and to knock down vapors which	ed possible toxic decomposed. Use water spray to kee	ition products. Proper eye and p fire-exposed containers cool

## 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.

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Methods for Containment & Clean-up: Ventilate the area with fresh air. Wipe up spilled material. 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. For product use instructions, please see the product label.
Storage Procedures:	Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage. Store separated from acids and oxidizing materials.
Aerosol Storage Level:	NA

## Section 8: Exposure Controls/Personal Protection

#### **Exposure Guidelines:**

	0	SHA	AC	GIH	0	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Medium polyalphaolefins	NE	NE	NE	NE	NE	1	
Fatty acids, C5-C10, esters w/pentaerythritol	NE	NE	NE	NE	NE		
Siliconized silica	6	NE	10	NE	NE		mg/m <sup>3</sup>
Molybdenum disulfide	NE	NE	10	NE	NE		mg/m <sup>3</sup>
Natural graphite	15 *	NE	2	NE	2.5	NIOSH	mg/m <sup>3</sup>
Zinc, dithiophosphate di-C1-14-alkyl esters	NE	NE	NE	NE	NE		
Crystalline silica, quartz	0.3	NE	0.025	NE	NE		mg/m <sup>3</sup>
* – mpp N.E. – Not Establish	cf (millions ed	of particles (c) - ceil		foot of ai - skin	r) (v) – vac	ated	

#### **Controls and Protection:**

Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.
None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.
For normal conditions, wear safety glasses.
Use protective gloves such as latex or nitrile.

### Section 9: Physical and Chemical Properties

Physical State: semi-solid grease Color: dark grey Odor: mild Odor Threshold: ND Specific Gravity: 0.90 @ 60°F / 16°C Initial Boiling Point: ND Freezing Point: ND Vapor Pressure: < 0.1 mmHg @ 68°F / 20°C Vapor Density: > 0.5 (air = 1) Evaporation Rate: slow Solubility: insoluble in water Coefficient of water/oil distribution: ND pH: NA Volatile Organic Compounds: wt %: 1.5 g/L: 14 lbs./gal:

### 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.

0.12

#### Acute Toxicity:

Component Medium polyalphaolefins	Oral LD50 (rat) > 2000 mg/kg	Dermal LD50 (rabbit) > 2000 mg/kg	Inhalation LC50 (rat) No data
Fatty acids, C5-C10, esters w/pentaerythritol	No data	No data	No data
Siliconized silica	No data	No data	No data
Molybdenum disulfide	No data	No data	> 2820 mg/m3/4H
Natural graphite	No data	No data	No data
Zinc, dithiophosphate di-C1-14-alkyl esters	No data	No data	No data
Crystalline silica, quartz	No data	No data	No data

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Chronic Toxicity:

Component Medium polyalphaolefins	OSHA Carcinogen No	IARC Carcinogen No	NTP Carcinogen No	Irritant R (mild)	Sensitizer Unknown
Fatty acids, C5-C10, esters w/pentaerythritol	No	No	No	Unknown	Unknown
Siliconized silica	No	No	No	Unknown	Unknown
Molybdenum disulfide	No	No	No	E (mild) / S (mild) / R (mild)	Unknown
Natural graphite	No	No	No	E (mild) / S (mild) / R (mild)	Unknown
Zinc, dithiophosphate di-C1-14- alkyl esters	No	No	No	Unknown	Unknown
Crystalline silica, quartz	No	Group 1	Known Carcinogen	E (moderate) / R (moderate)	Unknown

E-Eye S-Skin R-Respiratory

Reproductive Toxicity:	No information available
Teratogenicity:	No information available
Mutagenicity:	No information available
Synergistic Effects:	No information available

## Section 12: Ecological Information

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

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### Section 13: Disposal Considerations

Waste Classification: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33) Empty containers may be recycled.

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

## Section 14: Transport Information

US DOT (ground): Not Regulated

ICAO/IATA (air): Not Regulated

IMO/IMDG (water): Not Regulated

Special Provisions: None

#### Section 15: Regulatory Information

#### U.S. Federal Regulations:

#### 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
A DAMAGE OF THE PARTY OF THE PA	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%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration (OSHA): This product is regulated under the Hazard Communication Standard.

#### U.S. 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

Consumer Products VOC Regulations: This product is not regulated.

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

#### Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: D2A

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

#### **European Union Regulations:**

#### Product Name: Brake Caliper Synthetic Grease Product Number (s): 05351, 05353, 05354, 05359, 75353, 75359

RoHS Compliance:

This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

NFPA

Additional Regulatory Information: None

# Section 16: Other Information

HMIS® (II	)
Health:	1
FlarinmabilityL	1
Reactivity:	0
PPE:	в

Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By:	Michelle Rudnick		
CRC #:	2965		
Revision Date:	11/16/2012		

Removed Product Number Changes since last revision:

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH:	American Conference of Governmental Industrial Hygienists	NA	Not Applicable
CAS:	Chemical Abstract Service	ND:	Not Determined
CFR:	Code of Federal Regulations	NIOSH	National Institute of Occupational Safety & Health
DOT:	Department of Transportation	NFPA:	National Fire Protection Association
DSL:	Domestic Substance List	NTP:	National Toxicology Program
g/L:	grams per Liter	OSHA:	Occupational Safety and Health Administration
HMIS:	Hazardous Materials Identification System	PMCC:	Pensky-Martens Closed Cup
IARC:	International Agency for Research on Cancer	PPE.	Personal Protection Equipment
IATA:	International Air Transport Association	ppm:	Parts per Million
ICAO:	International Civil Aviation Organization	RoHS:	Restriction of Hazardous Substances
IMDG:	International Maritime Dangerous Goods	STEL:	Short Term Exposure Limit
IMO:	International Maritime Organization	TCC:	Tag Closed Cup
lbs./gal:	pounds per gallon	TWA:	Time Weighted Average
LC:	Lethal Concentration	WHMIS:	Workplace Hazardous Materials Information
LD:	Lethal Dose		System