



# MATERIAL SAFETY DATA SHEET

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## Section 1: Product & Company Identification

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**Product Name:** Permatherm™ High Temp Synthetic Grease

**Product Number (s):** SL3580

**Product Use:** Lubricating grease

### Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

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

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

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

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## Section 2: Hazards Identification

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### Emergency Overview

Appearance & Odor: Amber semi-solid to solid grease with a faint petroleum 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. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

**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.

**Product Name: Permatherm™ High Temp Synthetic Grease**  
**Product Number (s): SL3580**

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### Section 3: Composition/Information on Ingredients

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COMPONENT	CAS NUMBER	% by Wt.
Medium polyalphaolefins	68037-01-4	80 – 90
Zinc, dithiophosphate di-C1-14-alkyl esters	68649-42-3	3 – 5
Calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	< 1.5

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### Section 4: First Aid Measures

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**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.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** This product is nonflammable.

Flash Point:	> 500°F / 260°C (COC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

**Fire and Explosion Data:**

**Suitable Extinguishing Media:** CO<sub>2</sub>, dry chemical, sand, dolomite, alcohol resistant foam, water spray

**Products of Combustion:** Oxides of carbon and sulfur

**Explosion Hazards:** Containers, when exposed to heat from fire, may build pressure and rupture.

**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. Avoid water in straight hose stream as it will scatter and spread fire.

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### Section 6: Accidental Release Measures

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**Personal Precautions:** Use personal protection recommended in Section 8. Minimize skin contact.

**Environmental Precautions:** Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains. Advise authorities if product has entered waterways.

**Methods for Containment & Clean-up:** Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. 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. Keep containers closed when not in use. Ventilate well, especially in warmer environments. 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. Store away from sparks and open flame.

**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		
Zinc, dithiophosphate di-C1-14-alkyl esters	NE	NE	NE	NE	NE		
Calcium bis(dinonylnaphthalenesulphonate)	NE	NE	NE	NE	NE		
N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated							

### Controls and Protection:

**Engineering Controls:** 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.

**Respiratory Protection:** 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.

**Eye/face Protection:** For normal conditions, wear safety glasses.

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

## Section 9: Physical and Chemical Properties

**Physical State:** semi-solid grease  
**Color:** amber  
**Odor:** mild petroleum  
**Odor Threshold:** ND  
**Specific Gravity:** 0.90 @ 60°F / 16°C

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**Product Number (s): SL3580**

Initial Boiling Point: ND  
Freezing Point: ND  
Vapor Pressure: ND  
Vapor Density: ND (air = 1)  
Evaporation Rate: slow  
Solubility: insoluble in water  
Coefficient of water/oil distribution: ND  
pH: NA  
Volatile Organic Compounds: wt < 0.1 g/L: ND lbs./gal: ND  
%:

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## Section 10: Stability and Reactivity

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Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Avoid contact with acids and oxidizing substances.

Hazardous Decomposition Products: Oxides of carbon. Sulfur

Possibility of Hazardous Reactions: No

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## Section 11: Toxicological Information

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

### Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Medium polyalphaolephins	> 2000 mg/kg	> 2000 mg/kg	No data
Zinc, dithiophosphate di-C1-14-alkyl esters	No data	No data	No data
Calcium bis(dinonylnaphthalenesulphonate)	No data	No data	No data

### Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Medium polyalphaolephins	No	No	No	Unknown	Unknown
Zinc, dithiophosphate di-C1-14-alkyl esters	No	No	No	Unknown	Unknown
Calcium bis(dinonylnaphthalenesulphonate)	No	No	No	Unknown	Unknown

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: No information available

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## Section 12: Ecological Information

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**Product Name: Permatherm™ High Temp Synthetic Grease**

**Product Number (s): SL3580**

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

Ecotoxicity: No information available  
Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

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## **Section 13: Disposal Considerations**

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**Waste Classification:** This product is not a hazardous waste.  
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.

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## **Section 14: Transport Information**

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DOT (ground): Not Regulated  
ICAO/IATA (air): Not Regulated  
IMO/IMDG (water): Not Regulated  
Special Provisions: None

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## **Section 15: Regulatory Information**

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**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
	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

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## Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

## 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: Not Regulated

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

## European Union Regulations:

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.

Additional Regulatory Information: None

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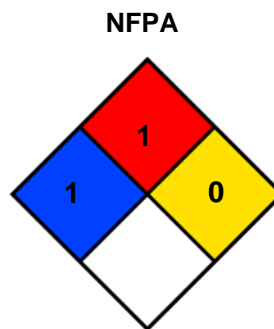
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## Section 16: Other Information

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HMIS® (II)	
Health:	1
Flammability:	1
Reactivity:	0
PPE:	B



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

Prepared By: Michelle Rudnick  
CRC #: 2965MV  
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Changes since last revision: New

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  
CAS: Chemical Abstract Service  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substance List  
g/L: grams per Liter  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer

IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
IMO: International Maritime Organization  
lbs./gal: pounds per gallon  
LC: Lethal Concentration  
LD: Lethal Dose  
NA: Not Applicable

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ND: Not Determined

NIOSH: National Institute of Occupational Safety & Health

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PMCC: Pensky-Martens Closed Cup

PPE: Personal Protection Equipment

ppm: Parts per Million

RoHS: Restriction of Hazardous Substances

STEL: Short Term Exposure Limit

TCC: Tag Closed Cup

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System