MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: **Extreme Duty Food Grade Grease**

Product Number (s): **SL35615, SL35616, SL35617, SL35618**

Product Use: Lubricating Grease

Manufacturer / Supplier Contact Information:

In United States:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
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
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: Tan grease, mild odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: Particles in the eyes may cause irritation and stinging

SKIN: May cause skin irritation or eczema. 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: May cause diarrhea if swallowed

CHRONIC EFFECTS: No data available

TARGET ORGANS: No data available

Medical Conditions Aggravated by Exposure: No data available

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
White mineral oil	8042-47-5	50 - 70%
Overbased calcium sulfonate complex thickener	Proprietary	15 - 30%
Alkylbenzenesulfonic acid	68584-22-5	1 - 5%
Boric acid, calcium salt	13840-55-6	1 - 5%
Calcium hydroxide	1305-62-0	0.2 - 1%

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! Get medical attention immediately.

Note to Physicians: If product is injected into or under the skin, or into any part of the body, the individual should be evaluated immediately by a physician as a surgical emergency.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is a Class IIIB combustible liquid and therefore not regulated.

Flash Point: >180°C (350°F) COC
Upper Explosive Limit: ND
Autoignition Temperature: ND
Lower Explosive Limit: ND

Fire and Explosion Data:

Suitable Extinguishing Media: Use foam, carbon dioxide (CO2), dry chemicals, sand, dolomite, etc.

Products of Combustion: Acrid smoke/fumes, oxides of carbon, 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.

Section 6: Accidental Release Measures

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.

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 away from heat, sparks, and open flame. Clean up small spills and leakages immediately to avoid slip hazard. For product use instructions, please see the product label.

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

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
White mineral oil	5*	NE	5*	10*	NE	NE	mg/m^3
Overbased calcium sulfonate complex thickener	15	NE	10	NE	NE		mg/m^3
Alkylbenzenesulfonic acid	NE	NE	NE	NE	NE		
Boric acid, calcium salt	NE	NE	NE	NE	NE		
Calcium hydroxide	15	NE	5	NE	5	NIOSH	mg/m^3
N.E. – Not Established	(c) – ceiling		(s) – skin		(v) – vacated	* – oil mist	

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. 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. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

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

Section 9: Physical and Chemical Properties

Physical State: Grease
Color: Tan
Odor: Mild

Odor Threshold: ND
Specific Gravity: 0.95 – 1.05
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: < 0.1mmHg @ 68°F / 20°C
Vapor Density: > 0.5 (air = 1)
Evaporation Rate: very slow
Solubility: Insoluble in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: 0 g/L: 0 lbs./gal: 0

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: 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 Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
White mineral oil	>5000 mg/kg	No data	No data
Overbased Calcium Sulfonate Complex Thickener	>2000 mg/kg	>2000 mg/kg	>0.5 mg/l
Alkylbenzenesulfonic acid	775 mg/kg	2000 mg/kg	NA
Boric acid, calcium salt	2660 mg/kg	>2000 mg/kg	0.89 mg/l
Calcium Hydroxide	7340 mg/kg	No data	No data

Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
White mineral oil	No	No	No	No	Unknown
Overbased Calcium Sulfonate Complex Thickener	No	No	No	Unknown	Unknown
Alkylbenzenesulfonic acid	No	No	No	E & S (moderate)	Unknown
Boric acid, calcium salt	No	No	No	Unknown	Unknown
Calcium Hydroxide	No	No	No	E (severe)	Unknown

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: Boric Acid: Adverse reproductive effects have occurred in experimental animals; was found to induce testicular atrophy and effects on spermatogenesis in rats and mice.
Teratogenicity: No data available
Mutagenicity: No data available
Synergistic Effects: No data available

Section 12: Ecological Information

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

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

Section 13: Disposal Considerations

Waste Classification: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Empty aerosol 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: No

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
	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:
None

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:
This product is regulated by 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: None

Consumer Products VOC Regulations: None

State Right to Know:
New Jersey: 1305-62-0
Pennsylvania: 1305-62-0
Massachusetts: 1305-62-0
Rhode Island : 1305-62-0

Canadian Regulations:

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

WHMIS Hazard Class: Not a controlled product

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.

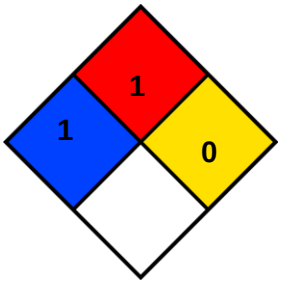
Additional Regulatory Information: None

Section 16: Other Information

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

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

NFPA



Prepared By: Michelle Rudnick
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Changes since last revision: New product

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
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