

Product Name: MOBILGREASE CM-L  
Revision Date: 22 Jul 2021  
Issue Date: 9 AUG 2016

SDS Number:2006077XCN  
Version:1.02

## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

Product Name: MOBILGREASE CM-L  
Product Description: Base Oil and Additives  
Product Code: 2015A0103510, 530105  
Recommended Use: Grease

#### COMPANY IDENTIFICATION

Supplier: ExxonMobil (China) Investment Co., Ltd.  
17/F., Metro Tower  
30 Tian Yao Qiao Road  
Shanghai 200030 China

|                             |                              |
|-----------------------------|------------------------------|
| 24 Hour Emergency Telephone | (+86) 0532-83889090          |
| Supplier General Contact    | (+86) 021-34116000           |
| E-Mail                      | consumerservice@mobil.com.cn |
| FAX                         | (+86) 021-23515968           |

Supplier: EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD  
1099 Zixing Road  
Minhang District  
Shanghai, CN China

|                             |                              |
|-----------------------------|------------------------------|
| 24 Hour Emergency Telephone | (+86) 0532-83889090          |
| Supplier General Contact    | (+86) 021-34116000           |
| E-Mail                      | consumerservice@mobil.com.cn |
| FAX                         | (+86) 021-23515968           |

### SECTION 2 HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

Physical State: Solid Form: Semi-fluid Colour: Dark Gray Odour: Characteristic

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin,

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or respiratory irritation.

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

**Contains:** PHOSPHORIC ACID ESTERS, AMINE SALT May produce an allergic reaction.

**Other hazard information:**

#### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

#### ENVIRONMENTAL HAZARDS

No significant hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

| Name                               | CAS#         | Concentration* | GHS Hazard Codes                   |
|------------------------------------|--------------|----------------|------------------------------------|
| MOLYBDENUM (IV) SULPHIDE           | 1317-33-5    | 1 - < 5%       | None                               |
| PHOSPHORIC ACID ESTERS, AMINE SALT | 800967-5494P | 0.1 - < 1%     | H227, H302, H317, H318, H401, H411 |
| ZINC DINONYLNAPHTHALENE SULPHONATE | 28016-00-4   | 0.1 - < 1%     | H315, H319(2A)                     |
| ZINC DITHIOPHOSPHATE               | 68649-42-3   | 1 - 2.5%       | H315, H318, H401, H411             |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### SECTION 4 FIRST AID MEASURES

**FIRST AID:**  
**INHALATION**

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Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

## SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

## EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

## INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

## IMPORTANT SYMPTOMS AND HEALTH EFFECTS

No important symptoms or effects.

## ADVICE TO PROTECT RESCUER

Please refer to Section 8 for personal protection information.

## NOTE TO PHYSICIAN

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

### SPECIAL HAZARD WHEN ON FIRE

In case of fire, see below for hazardous combustion products. Containers exposed to excessive heat from a fire may rupture.

### FIRE FIGHTING INSTRUCTIONS AND PROTECTIVE MEASURES

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## FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulphur oxides

## FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >204 C (399 F) [ EST. FOR OIL, ASTM D-92 (COC)]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

## ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.

## SPILL MANAGEMENT

**Land Spill:** Scrape up spilled material with shovels into a suitable container for recycle or disposal.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## SECTION 7 HANDLING AND STORAGE

## HANDLING

Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is not a static accumulator.

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**STORAGE**

Do not store in open or unlabelled containers.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

| Substance Name                   | Form                | Limit/Standard |          | Note | Source     | Year |
|----------------------------------|---------------------|----------------|----------|------|------------|------|
| MOLYBDENUM (IV) SULPHIDE [as Mo] |                     | TWA            | 6 mg/m3  |      | China OELs | 2019 |
| MOLYBDENUM (IV) SULPHIDE [as Mo] | Inhalable fraction  | TWA            | 10 mg/m3 |      | ACGIH      | 2020 |
| MOLYBDENUM (IV) SULPHIDE [as Mo] | Respirable fraction | TWA            | 3 mg/m3  |      | ACGIH      | 2020 |

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No protection is ordinarily required under normal conditions of use and with adequate ventilation. Particulate filter when appropriate.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen

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levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use. Nitrile, Viton

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

## GENERAL INFORMATION

**Physical State:** Solid  
**Form:** Semi-fluid  
**Colour:** Dark Gray  
**Odour:** Characteristic  
**Odour Threshold:** N/D

## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15 C):** 0.912  
**Flash Point [Method]:** >204 C (399 F) [ EST. FOR OIL, ASTM D-92 (COC)]  
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

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**Flammability (Solid, Gas):**  
**Autoignition Temperature:** N/D  
**Boiling Point / Range:** > 316 C (600 F)  
**Vapour Density (Air = 1):** N/D  
**Vapour Pressure:** < 0.013 kPa (0.1 mm Hg) at 20 ° C  
**Evaporation Rate (n-butyl acetate = 1):** N/D  
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** > 3.5  
**Solubility in Water:** Negligible  
**Viscosity:** 150 cSt (150 mm<sup>2</sup>/sec) at 40 C  
**Freezing Point:** N/D  
**Melting Point:** N/D  
**Decomposition Temperature:** N/D  
**Oxidizing Properties:** See Hazards Identification Section.

## OTHER INFORMATION

DMSO Extract (mineral oil only), IP-346: < 3 %wt

NOTE: Most physical properties above are for the oil component in the material.

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

## SECTION 11 TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

| <u>Hazard Class</u>                             | <u>Conclusion / Remarks</u>                                |
|---|--|
| <b>Inhalation</b>                               |  |
| Acute Toxicity: No end point data for material. | Minimally Toxic. Based on assessment of the components.    |
| Irritation: No end point data for material.     | Negligible hazard at ambient/normal handling temperatures. |
| <b>Ingestion</b>                                |  |

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|  |   |
|--|---|
| Acute Toxicity: No end point data for material.                | Minimally Toxic. Based on assessment of the components.                                       |
| <b>Skin</b>  |   |
| Acute Toxicity: No end point data for material.                | Minimally Toxic. Based on assessment of the components.                                       |
| Skin Corrosion/Irritation: No end point data for material.     | Negligible irritation to skin at ambient temperatures. Based on assessment of the components. |
| <b>Eye</b>   |   |
| Serious Eye Damage/Irritation: No end point data for material. | May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.      |
| <b>Sensitisation</b>   |   |
| Respiratory Sensitization:                                     |   |
| Skin Sensitization:  | Based on assessment of the components.  |
| <b>Aspiration:</b>   |   |
| <b>Germ Cell Mutagenicity:</b>                                 | Based on assessment of the components.  |
| <b>Carcinogenicity:</b>  | Based on assessment of the components.  |
| <b>Reproductive Toxicity:</b>                                  | Based on assessment of the components.  |
| <b>Lactation:</b>  |   |
| <b>Specific Target Organ Toxicity (STOT)</b>                   |   |
| Single Exposure:   |   |
| Repeated Exposure:   | Based on assessment of the components.  |

## OTHER INFORMATION

### Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitising in test animals.

### IARC Classification:

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

## ECOTOXICITY



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Material -- Not expected to be harmful to aquatic organisms.

## PERSISTENCE AND DEGRADABILITY

### Biodegradation:

Base oil component -- Expected to be inherently biodegradable

## BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

## MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

## DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14 TRANSPORT INFORMATION

China List of Dangerous Goods (GB 12268 - 2012) : Not Regulated for Land Transport

## INTERNATIONAL CLASSIFICATION FOR TRANSPORT

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

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**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15 REGULATORY INFORMATION

This material is not considered hazardous according to The General Rule for Classification and Hazard Communication of Chemicals (GB 13690-2009).

### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

**The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009):** Not Regulated

**Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste:** See Disposal Considerations section.

**Listed or exempt from listing/notification on the following chemical inventories :** AIIC, IECSC

## SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H317: May cause allergic skin reaction; Skin Sensitisation, Cat 1

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD: Section 01: Supplier Mailing Address information was added.

Composition: Component Table information was modified.

Section 01: Company Contact Methods information was modified.

Section 01: Preparation Date information was added.

Section 01: Product Identification Product Name information was added.

Section 01: Product Identification Product Name information was deleted.

Section 02: GHS Sensitizer Statement information was modified.

Section 04: First Aid Notes information was added.

Section 04: Symptoms and Effects information was added.

Section 08: Exposure Limits Table information was modified.

Section 12: information was modified.

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Section 13: National Catalogue fo Hazardous Wastes information was deleted.  
Section 13: Disposal Recommendations - Note information was modified.  
Section 15: National Chemical Inventory Listing information was modified.  
Section 16: HCode Key information was modified.

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