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# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION

### PRODUCT

**Product Name:** MOBILGREASE 28  
**Product Description:** Synthetic Base Stocks and Additives  
**SDS Number:** 6434  
**Product Code:** 201550402020  
**Intended Use:** Grease

### COMPANY IDENTIFICATION

**Supplier:** Imperial Oil Downstream  
P.O. Box 2480, Station M  
Calgary, ALBERTA T2P 3M9 Canada

|                                              |                |
|----------------------------------------------|----------------|
| <b>24 Hour Emergency Telephone</b>           | 1-866-232-9563 |
| <b>Transportation Emergency Phone Number</b> | 1-866-232-9563 |
| <b>Product Technical Information</b>         | 1-800-268-3183 |
| <b>Supplier General Contact</b>              | 1-800-567-3776 |

## SECTION 2 HAZARD IDENTIFICATION

This material is considered to be NON-HAZARDOUS according to regulatory guidelines.

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations (HPR) SOR/2015-17 and the SDS contains all the information required by the HPR SOR/2015-17.

### Other hazard information:

**Health Hazards Not Otherwise Classified:** None as defined under HPR SOR/2015-17.

**Physical Hazards Not Otherwise Classified:** None as defined under HPR SOR/2015-17.

### 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. Secondary amines or materials containing secondary amines should not be added to



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this product due to the risk of forming nitrosamines, some of which have been shown to be carcinogenic in lab animals.

## ENVIRONMENTAL HAZARDS

Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

|                        |           |                 |               |
|------------------------|-----------|-----------------|---------------|
| <b>NFPA Hazard ID:</b> | Health: 0 | Flammability: 1 | Reactivity: 0 |
| <b>HMIS Hazard ID:</b> | Health: 0 | Flammability: 1 | Reactivity: 0 |

**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

This material is defined as a mixture.

### Substance(s) or Complex Substance(s)

| Name                       | CAS#       | Concentration* | GHS Hazard Codes                                     |
|----------------------------|------------|----------------|------------------------------------------------------|
| N-PHENYL-1-NAPHTHYLAMINE   | 90-30-2    | 0.1 - < 1%     | H302, H317, H373, H400(M factor 1), H410(M factor 1) |
| N-OLEYLSARCOSINE           | 110-25-8   | 0.1 - < 1%     | H315, H318, H332, H400(M factor 1), H412             |
| PENTAERYTHRITOL            | 115-77-5   | 1 - < 5%       | None                                                 |
| SODIUM NITRITE             | 7632-00-0  | 0.1 - < 1%     | H272(2)(S), H301, H319(2A), H400(M factor 1)         |
| SODIUM PHOSPHATE, TRIBASIC | 10101-89-0 | 0.1 - < 1%     | H315, H319(2A), H335                                 |

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

## SECTION 4 FIRST-AID MEASURES

### INHALATION

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.



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## 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

### 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 (400°F) [EST. FOR OIL, ASTM D-92 (COC)]

**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0

**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.

### PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do so without risk. 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.

### ENVIRONMENTAL PRECAUTIONS

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

## SECTION 7 HANDLING AND STORAGE

### HANDLING

Prevent small spills and leakage to avoid slip hazard. Contains Sodium nitrite. Do not add amines which may form cancer causing nitrosamines.

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

### STORAGE

Do not store in open or unlabelled containers.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

| Substance Name             | Form | Limit/Standard |                      |  | Note | Source       |
|----------------------------|------|----------------|----------------------|--|------|--------------|
| PENTAERYTHRITOL            |      | TWA            | 10 mg/m <sup>3</sup> |  |      | ACGIH        |
| SODIUM PHOSPHATE, TRIBASIC |      | STEL           | 5 mg/m <sup>3</sup>  |  |      | OARS<br>WEEL |

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.

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 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.

**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. Practise 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 Red  
**Odour:** Characteristic  
**Odour Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15.6 °C):** 0.945 [Calculated]  
**Flammability (Solid, Gas):** N/A  
**Flash Point [Method]:** >204°C (400°F) [EST. FOR OIL, ASTM D-92 (COC)]  
**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0  
**Autoignition Temperature:** N/D  
**Boiling Point / Range:** > 316°C (600°F) [Estimated]  
**Decomposition Temperature:** N/D  
**Vapour Density (Air = 1):** > 2 at 101 kPa  
**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:** 29.3 cSt (29.3 mm<sup>2</sup>/sec) at 40°C | 5.7 cSt (5.7 mm<sup>2</sup>/sec) at 100°C [Estimated]

**Oxidizing Properties:** See Hazards Identification Section.

## OTHER INFORMATION

**Freezing Point:** N/D

**Melting Point:** N/D

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.

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

**MATERIALS TO AVOID:** Strong oxidizers

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

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

## SECTION 11 TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

| Hazard Class                                                   | Conclusion / Remarks                                                                           |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <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>                                               |                                                                                                |
| 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: No end point data for material.     | Not expected to be a respiratory sensitizer.                                                   |
| Skin Sensitization: No end point data for material.            | Not expected to be a skin sensitizer. Based on assessment of the components.                   |
| <b>Aspiration:</b> Data available.                             | Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. |
| <b>Germ Cell Mutagenicity:</b> No end point data for material. | Not expected to be a germ cell mutagen. Based on assessment of the components.                 |
| <b>Carcinogenicity:</b> No end point data for                  | Not expected to cause cancer. Based on assessment of the                                       |

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|                                                               |                                                                                                                |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| material.                                                     | components.                                                                                                    |
| <b>Reproductive Toxicity:</b> No end point data for material. | Not expected to be a reproductive toxicant. Based on assessment of the components.                             |
| <b>Lactation:</b> No end point data for material.             | Not expected to cause harm to breast-fed children.                                                             |
| <b>Specific Target Organ Toxicity (STOT)</b>                  |                                                                                                                |
| Single Exposure: No end point data for material.              | Not expected to cause organ damage from a single exposure.                                                     |
| Repeated Exposure: No end point data for material.            | Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components. |

## TOXICITY FOR SUBSTANCES

| NAME                     | ACUTE TOXICITY                         |
|--------------------------|----------------------------------------|
| N-PHENYL-1-NAPHTHYLAMINE | Oral Lethality: LD 50 1625 mg/kg (Rat) |

## OTHER INFORMATION

### For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

### Contains:

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans. N-phenyl-1-naphthylamine (PAN): A single oral overexposure may result in clinical signs/symptoms of cyanosis, headache, shallow respiration, dizziness, confusion, low blood pressure, convulsions, coma, or jaundice. Hematuria may occur due to bladder and kidney irritation, and anemia may develop later. Repeated exposure in laboratory animals caused liver and kidney damage and depressed bone marrow activity. Undiluted PAN is a skin sensitizer. Human testing of lubricants containing 1.0% PAN resulted in no reactions indicative of sensitization. Phenyl-alpha-naphthylamine (PAN): Undiluted PAN is a skin sensitizer. Human testing with lubricants containing 1.0% PAN caused no reactions indicative of sensitization. SODIUM NITRITE: Ingestion of sodium nitrite may reduce the oxygen-carrying capacity of blood and may cause cyanosis (bluish skin), shortness of breath, palpitations, coma, and/or death.

**CMR Status:** None.

### --REGULATORY LISTS SEARCHED--

1 = IARC 1  
2 = IARC 2A

3 = IARC 2B  
4 = ACGIH ALL

5 = ACGIH A1  
6 = ACGIH A2

## 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

Material -- Expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 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.

## DISPOSAL RECOMMENDATIONS

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

## REGULATORY DISPOSAL INFORMATION

**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

**LAND (TDG):** Not Regulated for Land Transport

**LAND (DOT):** Not Regulated for Land Transport

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

**Marine Pollutant:** No

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

## SECTION 15

## REGULATORY INFORMATION

**CEPA:** All components of this product are either on the Domestic Substance List (DSL) or are exempt.

**Listed or exempt from listing/notification on the following chemical inventories:** AIIC, DSL, ENCS, IECSC, ISHL, TCSI, TSCA

**Special Cases:**





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| Inventory | Status             |
|-----------|--------------------|
| KECI      | Restrictions Apply |

**The Following Ingredients are Cited on the Lists Below:**

| Chemical Name     | CAS Number | List Citations |
|-------------------|------------|----------------|
| CALCIUM HYDROXIDE | 1305-62-0  | 6              |
| IRON OXIDE        | 1332-37-2  | 6              |
| MAGNESIUM OXIDE   | 1309-48-4  | 6              |
| SILICA            | 7631-86-9  | 6              |
| SODIUM NITRITE    | 7632-00-0  | 2              |

--REGULATORY LISTS SEARCHED--

1 = TSCA 4  
2 = TSCA 5a2

3 = TSCA 5e  
4 = TSCA 6

5 = TSCA 12b  
6 = NPRI

| 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):**

H272(2): May intensify fire; oxidizer; Oxidizing Solid, Cat 2  
H301: Toxic if swallowed; Acute Tox Oral, Cat 3  
H302: Harmful if swallowed; Acute Tox Oral, Cat 4  
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  
H332: Harmful if inhaled; Acute Tox Inh, Cat 4  
H335: May cause respiratory irritation; Target Organ Single, Resp Irr  
H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 2  
H400: Very toxic to aquatic life; Acute Env Tox, Cat 1  
H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1  
H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

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

Composition: Component table information was modified.  
Section 11: Tox List Cited Table information was deleted.  
Section 15: Canadian List Citations Table information was modified.  
Section 16: HCode Key information was modified.

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