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# SAFETY DATA SHEET

### **SECTION 1**

### PRODUCT AND COMPANY IDENTIFICATION

As of the revision date above, this (M)SDS meets the regulations in United Arab Emirates.

**PRODUCT** 

Product Name: MOBILGREASE 28

**Product Description:** Synthetic Base Stocks and Additives **Product Code:** 201550402020, 530626-00

Intended Use: Grease

**COMPANY IDENTIFICATION** 

Supplier: EXXONMOBIL

407, EMARAT ATRIUM SHEIKH ZAYED ROAD P.O. BOX 33369

DUBAI

**United Arab Emirates** 

**Product Technical Information** 

+20 2 795 4850 (ARABIC, ENGLISH, FRENCH)

National Poison Centre: BAHRAIN +973 1787 5176 / LEBANON +961 1 6140 01 OR 2 OR 3 OR 6 / KUWAIT

+965 246 8537 OR 241 8165 / UAE +971 2 4048 538 OR 540 OR 541

# SECTION 2

### **HAZARDS IDENTIFICATION**

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

### **CLASSIFICATION OF SUBSTANCE OR MIXTURE:**

Chronic aquatic toxicant: Category 3.

LABEL ELEMENTS:

Pictograms: No Pictograms

Signal Word: No Signal Word

**Hazard Statements:** 

Environmental: H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements:** 

Prevention: P273: Avoid release to the environment.

Disposal: P501: Dispose of contents and container in accordance with local regulations.



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**Contains:** N-PHENYL-1-NAPHTHYLAMINE 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. Secondary amines or materials containing secondary amines should not be added to this product due to the risk of forming nitrosamines, some of which have been shown to be carcinogenic in lab animals.

### **Environmental Hazards:**

No additional 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**

This material is defined as a mixture.

### No Reportable Hazardous Substance(s) or Complex Substance(s).

Name	CAS#	Concentration*	GHS Hazard Codes
1-NAPHTHYLAMINE, N-PHENYL-	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, 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

<sup>\*</sup> All concentrations are percent by weight unless material 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



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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.

### **NOTE TO PHYSICIAN**

None

# **SECTION 5**

# **FIRE FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters 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, Sulfur 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 it without risk. Scrape up spilled material with shovels into a suitable container for recycle or disposal.



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**Water Spill:** Stop leak if you can do it 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**

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

Substance Name	Form	Limit / Standard		Note	Source	
PENTAERYTHRITOL		TWA	10 mg/m3			UAE OELs
PENTAERYTHRITOL		TWA	10 mg/m3			Abu Dhabi TLVs
PENTAERYTHRITOL		TWA	10 mg/m3			GCC TLVs
PENTAERYTHRITOL		TWA	10 mg/m3			Bahrain TLVs
PENTAERYTHRITOL		TWA	10 mg/m3			ACGIH
SODIUM PHOSPHATE, TRIBASIC		STEL	5 mg/m3			OARS WEEL

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):

# **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



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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/vapor 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. 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
Color: Dark Red
Odor: Characteristic
Odor Threshold: N/D

# IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.945 [Calculated]

Flammability (Solid, Gas): N/A



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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 **Vapor Density (Air = 1):** > 2 at 101 kPa

Vapor 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 mm2/sec) at 40 °C | 5.7 cSt (5.7 mm2/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

### **ACUTE TOXICITY**

Route of Exposure	Conclusion / Remarks	
Inhalation		
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.	
INGESTION		
Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.	
Skin		
Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.	
Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on	
	assessment of the components.	



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Eye	
Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on
	assessment of the components.

### OTHER HEALTH EFFECTS FROM SHORT AND LONG TERM EXPOSURE

Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.

# 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:

An ingredient or ingredients that are classified as a skin sensitizer.

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 sensitizing 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.

### 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.

**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



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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 (ADR/RID):** 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

This material is considered hazardous according to the Classification of Chemicals based on Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s) subject to notification to the EPA Active TSCA inventory prior to import to USA):

AIIC, DSL, ENCS, IECSC, ISHL, TCSI, TSCA

Special Cases:

Inventory	Status
KECI	Restrictions Apply

# **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 Sensitization, 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

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



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

Composition: Component Table information was modified. Composition: No components information was modified. Section 01: Product Code information was modified.

Section 08: Exposure Limits Table information was modified.

Section 09: Color information was modified.

Section 09: Flammable Limits - LEL information was modified. Section 09: Flammable Limits - UEL information was modified.

Section 09: Flash Point C(F) information was modified.

Section 09: n-Octanol/Water Partition Coefficient information was modified.

Section 09: Relative Density information was modified. Section 09: Vapor Pressure information was added. Section 09: Vapor Pressure information was deleted. Section 09: Viscosity information was modified.

Section 12: Ecological Information - Bioaccumulation information was deleted. Section 12: Ecological Information - Biodegradation information was deleted.

Section 15: National Chemical Inventory Listing information was modified.

Section 16: HCode Key information was modified.

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