

Revision Date: 25 Aug 2016

Page 1 of 12

# **SAFETY DATA SHEET**

# **SECTION 1**

# PRODUCT AND COMPANY IDENTIFICATION

#### **PRODUCT**

Product Name: MOBIL SHC GREASE 460 WT

**Product Description:** Synthetic Base Stocks and Additives **Product Code:** 2015A0209710, 643932-00, 97AS52

Intended Use: Grease

# **COMPANY IDENTIFICATION**

Supplier: EXXON MOBIL CORPORATION

22777 Springwoods Village Parkway

Spring, TX 77253 USA

**24 Hour Health Emergency** 609-737-4411

Transportation Emergency Phone 800-424-9300 or 703-527-3887 CHEMTREC

Product Technical Information 800-662-4525

MSDS Internet Address www.exxon.com, www.mobil.com

# **SECTION 2**

# HAZARDS IDENTIFICATION

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

# **CLASSIFICATION:**

Skin Sensitizer: Category 1. Reproductive toxicant (developmental): Category 1B. Reproductive toxicant (fertility): Category 1B.

# LABEL: Pictogram:





Signal Word: Danger

# **Hazard Statements:**

H360: May damage fertility or the unborn child. H317: May cause allergic skin reaction.

# **Precautionary Statements:**

P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing fumes. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves and clothing.P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P313: IF exposed or concerned: Get medical advice/attention. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated



Revision Date: 25 Aug 2016

Page 2 of 12

clothing and wash it before reuse. P391: Collect spillage.P405: Store locked up.P501: Dispose of contents and container in accordance with local regulations.

Contains: 5-NONYL-SALICYLALDOXIME; ALKENYL SUCCINIC ANHYDRIDE

Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

#### 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**

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

NFPA Hazard ID: Health: 2 Flammability: 1 Reactivity: 0
HMIS Hazard ID: Health: 2 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.

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

Name	CAS#	Concentration*	GHS Hazard Codes
5-NONYL-SALICYLALDOXIME	174333-80-3	0.1 - < 0.3%	H315, H318, H317, H360(1B)(D), H360(1B)(F), H400(M factor 10), H410(M factor 10)
ALKENYL SUCCINIC ANHYDRIDE	19780-11-1	0.1 - < 1%	H315, H319(2A), H317, H332
LITHIUM HYDROXIDE MONOHYDRATE	1310-66-3	0.1 - < 1%	H302, H314(1B)
LITHIUM SALT OF ALIPHATIC ACID	18621-94-8	1 - < 5%	H302
METHYLENE BIS(DIBUTYLDITHIOCARBAMATE)	10254-57-6	1 - < 5%	H413

<sup>\*</sup> All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).



Revision Date: 25 Aug 2016

Page 3 of 12

# **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. Remove contaminated clothing. Launder contaminated clothing before reuse. 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.

# **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: 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. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The



Revision Date: 25 Aug 2016

Page 4 of 12

National Response Center can be reached at (800)424-8802.

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

**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.

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 / Star	ndard	NOTE	Source
LITHIUM HYDROXIDE		Ceiling	1 mg/m3	N/A	OARS
MONOHYDRATE			-		WEEL

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

No biological limits allocated.



Revision Date: 25 Aug 2016

Page 5 of 12

#### **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/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:

Chemical resistant gloves are recommended.

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:

Chemical/oil resistant clothing is recommended.

**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**



Revision Date: 25 Aug 2016

Page 6 of 12

Physical State: Solid Form: Semi-fluid Color: Red

Odor: Characteristic Odor Threshold: N/D

# IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 °C): 0.9 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: N/D UEL: N/D

**Autoignition Temperature:** N/D

**Boiling Point / Range:** > 316°C (600°F) [Estimated]

**Decomposition Temperature:** N/D **Vapor Density (Air = 1):** N/D

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C [Estimated]

Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): N/A

Solubility in Water: Negligible

Viscosity: 460 cSt (460 mm2/sec) at 40 °C | >16 cSt (16 mm2/sec) at 100°C

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

**REACTIVITY:** See sub-sections below.

**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
Inhalation	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.



Revision Date: 25 Aug 2016

Page 7 of 12

material. Irritation: No end point data for material Negligible hazard at ambient/normal handling temperatures Ingestion Acute Toxicity: No end point data for Minimally Toxic. Based on assessment of the components. material. Skin Acute Toxicity: No end point data for Minimally Toxic. Based on assessment of the components. material. Skin Corrosion/Irritation: No end point data Negligible irritation to skin at ambient temperatures. Based on for material. assessment of the components. Eye Serious Eye Damage/Irritation: No end point May cause mild, short-lasting discomfort to eyes. Based on data for material. assessment of the components. Sensitization Respiratory Sensitization: No end point data Not expected to be a respiratory sensitizer. for material. Skin Sensitization: No end point data for May cause allergic skin reaction. Based on assessment of the material. components. Aspiration: Data available. Not expected to be an aspiration hazard. Based on physicochemical properties of the material. Germ Cell Mutagenicity: No end point data Not expected to be a germ cell mutagen. Based on assessment of the components. for material. Carcinogenicity: No end point data for Not expected to cause cancer. Based on assessment of the material. components. Reproductive Toxicity: No end point data Contains a substance that may be a reproductive toxicant. Based for material. on assessment of the components. Lactation: No end point data for material. Not expected to cause harm to breast-fed children. Specific Target Organ Toxicity (STOT) Single Exposure: No end point data for Not expected to cause organ damage from a single exposure. material. Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated material. exposure. Based on assessment of the components.

#### OTHER INFORMATION

# 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 sensitizing in test animals and humans.

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

-- REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 1 5 = IARC 2B 2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC



Revision Date: 25 Aug 2016

Page 8 of 12

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

#### **ECOTOXICITY**

Material -- Expected to be toxic 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**

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.

# REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**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 (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport



Revision Date: 25 Aug 2016

Page 9 of 12

# SEA (IMDG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-NONYL-

SALICYLALDOXIME)
Hazard Class & Division: 9
EMS Number: F-A, S-F
UN Number: 3082
Packing Group: III
Marine Pollutant: No

Label(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(5-NONYL-SALICYLALDOXIME), 9, PG III

# AIR (IATA)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (5-NONYL-

SALICYLALDOXIME)
Hazard Class & Division: 9

UN Number: 3082 Packing Group: III Label(s) / Mark(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

(5-NONYL-SALICYLALDOXIME), 9, PG III

# **SECTION 15**

# **REGULATORY INFORMATION**

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: IECSC, TCSI, TSCA Special Cases:

Inventory	Status
NDSL	Restrictions Apply

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

# The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
HYDROTREATED HEAVY	64742-52-5	13, 17, 18
NAPHTHENIC DISTILLATE		



Revision Date: 25 Aug 2016

Page 10 of 12

# -- REGULATORY LISTS SEARCHED--

1 = ACGIH ALL 6 = TSCA 5a2 11 = CA P65 REPRO 16 = MN RTK 2 = ACGIH A1 7 = TSCA 5e 12 = CA RTK 17 = NJ RTK 3 = ACGIH A28 = TSCA 6 13 = IL RTK 18 = PA RTK 4 = OSHAZ9 = TSCA 12b 14 = LA RTK 19 = RI RTK 5 = TSCA 4 10 = CA P65 CARC 15 = MI 293

Code key: CARC=Carcinogen; REPRO=Reproductive

# **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):

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B

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

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

H318: Causes serious eve damage: Serious Eve 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

H360(1B)(D): May damage the unborn child; Repro Tox, Cat 1B (Develop)

H360(1B)(F): May damage fertility; Repro Tox, Cat 1B (Fertility)

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

H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

# THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified.

GHS Hazard Statements - Header information was added.

GHS Health Classification information was added.

GHS Health Hazards information was added.

GHS Health Symbol information was added.

GHS Precautionary Statements - Disposal information was added.

GHS Precautionary Statements - General - Header information was added.

GHS Precautionary Statements - Prevention information was added.

GHS Precautionary Statements - Response information was added.

GHS Precautionary Statements - Storage information was added.

GHS Signal Word - Header information was added.

GHS Signal Word information was added.

GHS Symbol Header information was added.

Hazard Identification: HMIS Health information was modified.

Hazard Identification: NFPA Health information was modified.

Hazard Identification: Physical/Chemical Hazard information was added.

Hazard Identification: Physical/Chemical Hazard information was deleted.

Hazard Identification: US - Hazards Statement - GHS information was added.

Hazard Identification: US - Hazards Statement - GHS information was deleted.



Revision Date: 25 Aug 2016

Page 11 of 12

- Section 01: Company Contact Methods information was modified.
- Section 01: Company Mailing Address information was modified.
- Section 01: Hazard Classification Header information was added.
- Section 02: GHS Contains Header information was added.
- Section 02: GHS Contains for LABEL GHS codes information was added.
- Section 04: First Aid Skin information was modified.
- Section 05: Hazardous Combustion Products information was modified.
- Section 08: Hand Protection information was modified.
- Section 08: Skin and Body Protection information was modified.
- Section 11: Inhalation Lethality Test Comment information was deleted.
- Section 11: Reproductive Conclusion information was modified.
- Section 11: Skin Sensitization Conclusion information was modified.
- Section 12: Ecological Information Acute Aquatic Toxicity information was added.
- Section 12: Ecological Information Acute Aquatic Toxicity information was deleted.
- Section 14: Air (IATA) Default information was deleted.
- Section 14: Air (IATA) Header information was modified.
- Section 14: EMS Number Header information was added.
- Section 14: EMS Number information was added.
- Section 14: Hazard Class & Division Header information was added.
- Section 14: Hazard Class information was added.
- Section 14: IATA Technical Name All information was added.
- Section 14: IATA Technical Name Open parenthesis information was added.
- Section 14: IATATechnical Name Close parenthesis information was added.
- Section 14: IMO Technical Name All information was added.
- Section 14: IMO Technical Name Close parenthesis information was added.
- Section 14: IMO Technical Name Open parenthesis information was added.
- Section 14: Label(s) Header information was added.
- Section 14: Label(s) information was added.
- Section 14: Marine Pollutant information was modified.
- Section 14: Packing Group Header information was added.
- Section 14: Packing Group information was added.
- Section 14: Proper Shipping Name Header information was added.
- Section 14: Proper Shipping Name information was added.
- Section 14: Sea (IMDG) Default information was deleted.
- Section 14: Sea (IMDG) Header information was modified.
- Section 14: Transport Document Name Header information was added.
- Section 14: Transport Document Name information was added.
- Section 14: UN Number Header information was added.
- Section 14: UN Number information was added.
- Section 15: Community RTK Header information was modified.
- Section 15: Labeling Header information was added.
- Section 15: National Chemical Inventory Listing information was modified.
- Section 15: United States Hazard Statement information was modified.
- Section 16: Code to PPEs information was modified.
- Section 16: HCode Key information was modified.
- Section 16: Revision Information Implementation of GHS requirements phrase. information was deleted.

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Revision Date: 25 Aug 2016

Page 12 of 12

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