

SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: MFA OIL EXTENDED LIFE FULL SYNTHETIC GEAR OIL SAE 75W90
Product Code: FA759F5G, FA759F16, FA759F55

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Gear Oil
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer: MFA Oil Company
One Ray Young Drive
Columbia, MO 65201
Information Phone: (800) 827-0116
E-mail: sds@wd-wpp.com

1.4. Emergency telephone number

Emergency phone number: CHEMTREC: +1 (800) 424-9300
International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Sensitisation Category 1
Hazardous to the aquatic environment - Chronic Category 3

2.2. Label elements

GHS Hazard Symbols



| | |
|---------------------------------|---|
| Signal Word | Warning |
| Hazard Statements | May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary Statements | |
| Prevention | P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P321 - Specific treatment (see section 4). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. |
| Disposal | P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. |

2.3. Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

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Unknown acute toxicity (GHS-US)

Unknown Acute Toxicity (Gas): 98.521334 % of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3: Composition/information on ingredients

| Chemical Name | % | CAS # | GHS Classification |
|--|-----------|--------------|--|
| 1-Decene, homopolymer, hydrogenated | 40 - 70 | 68037-01-4 | Asp. Tox. 1; H304 |
| Petroleum distillates, hydrotreated heavy paraffinic | 0.5 - 1.5 | 64742-54-7 | Acute Tox. 4; H332 Acute Tox. 3; H331 |
| Alkoxylated long-chain alkyl amine | 0.1 - 1 | Confidential | Aquatic Chronic 2; H411 Acute Tox. 3; H311 Acute Tox. 2; H330 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Corr. 1B; H314 Skin Sens. 1; H317 |

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately. |
| Eyes | Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. |
| Skin Contact | Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Seek medical advice if symptoms persist. |
| Ingestion | Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS. |

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Not determined

4.3. Indication of any immediate medical attention and special treatment needed

Note to Doctor Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

5.3. Advice for firefighters

Fire Fighting Methods and Protection

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products

Carbon monoxide, Smoke

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

6.2. Environmental precautions

Do not flush to sewer.

Avoid runoff into storm sewers and ditches that lead to waterways.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Avoid runoff into storm sewers and ditches that lead to waterways.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: No data available. {EMSFORM_06GHS_CLEAN}

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials

See Section 10.

7.3. Specific end use(s)

Gear Oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Chemical Name | Occupational Exposure Limits | Value |
|-------------------|------------------------------|----------------------|
| Oil mist, mineral | OSHA PEL | 5 mg/m ³ |
| Oil mist, mineral | ACGIH TLV-TWA | 5 mg/m ³ |
| Oil mist, mineral | ACGIH STEL | 10 mg/m ³ |
| None. | IDLH | |
| None. | OSHA PEL-Skin Notation | |

8.2. Exposure controls

Engineering Measures

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Respiratory Protection

Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels.

Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------|
| Physical State | Liquid |
| Color | Amber |
| Odor | Mild |
| Odor threshold | Not determined |
| pH | Not determined |
| Freezing point | Not determined |
| Boiling Point | Not determined |
| Flash Point | 223 |
| Flash Point Method | COC |
| Evaporation Rate | Not determined |
| Upper Flammable/Explosive Limit, % in air | Not established |
| Lower Flammable/Explosive Limit, % in air | Not established |
| Flammability (solid, gas) | Not applicable |
| Vapor pressure | Not determined |
| Vapor Density | Not determined |
| Relative Density | 0.86 |
| Solubility in Water | Insoluble |
| Octanol/Water Partition Coefficient | Not determined |
| Autoignition Temperature | Not determined |
| Decomposition Temperature | Not determined |
| Viscosity(°C) | 96.47 |
| 9.2. Other information | |
| Volatiles, % by weight | 0.000000 |

SECTION 10: Stability and reactivity

| | |
|--|--|
| 10.1. Reactivity | No data available. |
| 10.2. Chemical stability | Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| 10.4. Conditions to avoid | Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation). |
| 10.5. Incompatible materials | Strong oxidizing agents |
| 10.6. Hazardous decomposition products | Carbon monoxide, Smoke |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------|--|
| Ingestion Toxicity | Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Estimated to be 2.0 - 5.0 g/kg. |
| Skin Contact | This material is likely to be severely irritating to skin based on animal data. Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage. |
| Absorption | Likely to be practically non-toxic based on animal data. |
| Inhalation Toxicity | No hazard in normal industrial use. Likely to be practically non-toxic based on animal data. |
| Eye Contact | This material is likely to be severely irritating to eyes based on animal data. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible. |
| Sensitization | Non-hazardous under Respiratory Sensitization category. Contains a substance that may cause skin |

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SECTION 11: Toxicological information

| | |
|---|--|
| Mutagenicity | sensitization. No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic. |
| Carcinogenicity | Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer. |
| Reproductive and Developmental Toxicity | No data available to indicate product or any components present at greater than 0.1% may cause birth defects. |
| Specific target organ toxicity-Single exposure | Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category. |
| Specific target organ toxicity-Repeated exposure | Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category. |
| Aspiration toxicity | Non-hazardous under Aspiration category. |
| Other information | No data available. |

Agents Classified by IARC Monographs

| | |
|-----------------|---------------|
| Ethylene oxide | IARC Group 1 |
| Not applicable | IARC Group 2A |
| Vinyl acetate | IARC Group 2B |
| 1,4-Dioxane | IARC Group 2B |
| Propylene oxide | IARC Group 2B |

National Toxicity Program (NTP) Status

| | |
|-----------------|---|
| Ethylene oxide | Known Human Carcinogen |
| 1,4-Dioxane | Reasonably Anticipated To Be A Human Carcinogen |
| Propylene oxide | Reasonably Anticipated To Be A Human Carcinogen |

SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity: H412 - Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegrades slowly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods

Dispose of by incineration following Federal, State, Local, or Provincial regulations.

Waste Disposal Code(s)

Waste Description for Spent Product

Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging:

Recycle containers whenever possible.

Recycle containers whenever possible.

Recycle containers whenever possible.

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SECTION 14: Transport Information

DOT Basic Description Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

SECTION 15: Regulatory information

Chemical Inventories

TSCA Status All components of this material are on the US TSCA Inventory or are exempt.

U.S. State Restrictions: Not applicable

WHMIS: Uncontrolled product according to WHMIS classification criteria

| Chemical Name | Regulation | CAS # | % |
|-----------------|------------|----------|-------------|
| None. | CERCLA | | |
| Vinyl acetate | SARA 313 | 108-05-4 | 0.001- 0.01 |
| 1,4-Dioxane | SARA 313 | 123-91-1 | <10ppm |
| Ethylene oxide | SARA 313 | 75-21-8 | <10ppm |
| Propylene oxide | SARA 313 | 75-56-9 | <10ppm |
| None. | SARA EHS | | |
| None. | TSCA 12b | | |

U.S. State Regulations

| Chemical Name | Regulation | CAS # | % |
|-----------------|---------------------------------------|----------|--------|
| 1,4-Dioxane | California Prop 65- Cancer | 123-91-1 | <10ppm |
| Ethylene oxide | California Prop 65- Cancer | 75-21-8 | <10ppm |
| Propylene oxide | California Prop 65- Cancer | 75-56-9 | <10ppm |
| Ethylene oxide | California Prop 65- Dev. Toxicity | 75-21-8 | <10ppm |
| Ethylene oxide | California Prop 65- Reprod -fem | 75-21-8 | <10ppm |
| Ethylene oxide | California Prop 65- Reprod-male | 75-21-8 | <10ppm |
| None. | Massachusetts RTK List | | |
| None. | New Jersey RTK List | | |
| None. | Pennsylvania RTK List | | |
| None. | Rhode Island RTK List | | |
| None. | Minnesota Hazardous Substance List | | |

HMIS Ratings:

Health: 3
Fire: 1
Reactivity: 0
PPE: B

NFPA Ratings:

Health: 3
Fire: 1
Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16: Other information

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References ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CFR: Code of Federal Regulations

DOT: United States Department of Transportation

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SECTION 16: Other information

GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transportation Association
IDLH: Immediately Dangerous to Life or Health
IMDG: International Maritime Dangerous Goods
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RTK: Right-to-Know
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term Exposure Limit
TLV: Threshold limit value
TSCA: Toxic Substances Control Act
TWA: Time weighted average
UN: United Nations
WHMIS: Workplace Hazardous Materials Information System

Disclaimer

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.