

SAFETY DATA SHEET

Product: McFarlane Aviation, Inc. Pulley Oil

Revision Date: 08/10/2017

1. MATERIAL IDENTIFICATION

Product Name: McFarlane Aviation, Inc. Pulley Oil

Product Description: Light machine oil, light amber colored

Product Use: Petroleum oil for precision application where a light weight oil is needed. (Delicate mechanisms/bearings, typewriters, sewing machines, ect.) Resists evaporation, will not leave a gummy residue.

Manufacturer: McFarlane Aviation, Inc.
696 E. 1700 Road
Baldwin City, KS 66006

Telephone: 785-594-2741

Emergency Phone: 785-594-2741

2. HAZARDS IDENTIFICATION

GHS Classification:

Flammable Liquid: Category 1.4

Skin Sensitization: Skin Irritation Category 1

Eye Damage/Irritation Category 2A

Specific Organ Toxicity_ Single Exposure: Category 3 (Respiratory Irritation)

GHS Label Elements:



GHS Signal Word:

Warning

GHS Hazard Determining Component:

Distillates, hydro-treated heavy naphthenic

Light Petroleum Distillates

GHS Hazard Statements for Health Hazards:

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

GHS Precautionary Statements - Prevention:

P260 Do not breathe vapors.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye/face protection.

GHS Precautionary Statements – Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P310 Immediately call a poison center or doctor.

P303+P361+P353 IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water.

P363 Wash contaminated clothing before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P391 Collect spillage.

GHS Storage/Disposal:

P501 Dispose in accordance with local, regional, national or international regulations.

3. COMPOSITION

Chemical Name	CAD#	%
Distillates, hydrotreated heavy naphthenic	64742-52-5	50-100%
Distillates, solvent-refined heavy paraffinic	64741-88-4	0-50%

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Remove contact lenses as soon as possible. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove victim to fresh air. Assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention. Symptoms can be delayed several hours.

Ingestion:

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended.

Immediate medical attention:

If swallowed, get immediate medical attention.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 164° C (327° F) (Min)

Autoignition: No Data Available

Flammability (Explosive) Limits (1% by volume in air) : Lower: Not Applicable Upper: Not Applicable

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

6. ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

7. HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation and vacuum truck operations) and use appropriate mitigating procedures. For

more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids'. National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity' and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, 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. Empty containers should be completely drained, properly closed, and properly returned to a drum reconditioner or disposed of properly.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber, Silve Shield, Viton.

Respiratory Protection: No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure

Limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Distillates, hydro-treated heavy naphthenic	ACGIH	5 mg/m ³	10 mg/m ³	-----	----
Distillates, hydro-treated heavy naphthenic	OSHA Z-1	2000 mg/m ³	-----	-----	----
Distillates, solvent-refined heavy paraffinic	ACGIH	5 mg/m ³	10 mg/m ³	----	----
Distillates, solvent-refined heavy paraffinic	OSHA Z-1	2000 mg/m ³	----	-----	----

9. Physical and Chemical Properties

Attention: the data below are typical values and do not constitute a specification.

Color: Light Amber

Physical State: Liquid

Odor: Petroleum Odor

PH: Not Applicable

Vapor Pressure: <0.01 mm Hg @ 20° C (68° F)

Vapor Density (Air=1): >10

Boiling Point: >315°C (599° F)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils, which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No further relevant information available.

Persistence & Degradability: Highly refined mineral oil is expected to be readily biodegradable.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Ecotoxicity: Highly refined mineral oil, no further data available.

Results of PBT & vPvB Assessment:

Other Adverse Effects: No further information available.

13. DISPOSAL CONSIDERATIONS

Disposal: Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR.

Additional Information: NOT HAZARDOUS BY U.S. DOT ADR/RID HAZARD CLASS NOT APPLICABLE

IMO/IMDG Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: No CERCLA reportable quantity has been established for this material.

TSCA: All ingredients of this material are listed on the TSCA inventory.

SARA Title III

Sections 302, 304, 313: This product does not contain any substances reportable under these sections.

Sections 311, 312:

16. OTHER INFORMATION

SDS Revision History: Converted to GHS Format- all sections revised and updated to information current at on 08/10/2017.

Key Legend Information

ACGIH American Conference of Governmental Industrial Hygienists

ARD International Agency for Research on Cancer

CAS Chemical Abstract Service

CERCLA Comprehensive Environmental Response, Compensation & Liability Act

DSL Domestic Substance List

EC European Commission

HMIS Hazardous Materials Identification System

IARC International Agency for Research on Cancer

ND Not Determined

NE Not Established

NFPA National Fire Protection Association

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RE Repeat Exposure

SARA Superfund Amendments & Reauthorization Act

SARA Title III Emergency Planning & Community Right to Know Act

SARA Section 302 Extremely Hazardous Substances

SARA Section 304 Emergency Release

SARA Section 311 MSDS/List of Chemicals & Hazardous Inventory

SARA Section 312 Emergency & Hazardous Inventory

SARA Section 313 Toxic Chemicals & Release Reporting

SE Single Exposure

STEL Short Term Exposure Limit

STOT Specific Target Organ Toxicity

TLV Threshold Limit Value

TWA Time Weighted Average

Disclaimer: The information contained herein is based on data taken from sources believed to be both current and reliable at the time of publication. McFarlane Aviation, Inc. makes no warranty, expressed or implied, as to the accuracy of this MSDS and assumes no liability arising from its use by others. Compliance with all applicable Federal, State and Local laws and regulations remains the responsibility of the user.