

AOCUSA

1601 McCloskey Boulevard Tampa, Florida 33605 U.S.A. E-MAIL:

Telephone: (813)248-1988 Fax: (813) 248-1488

848104682

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Safety data sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Revision: 24 April 2018

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): FRAM AW 46 HYDRAULIC OIL

Product Code(s): 848104682

Uses: A petroleum-based lubricant.

Company: AOCUSA

Address: 1601 McCloskey Boulevard Tampa, Florida 33605

U.S.A.

Telephone Number: (813) 248-1988 Fax Number: (813) 248-1488

Emergency Telephone Number: For Hazardous Materials [or Dangerous Goods] Incident (24 hours/day)

ChemTel Inc. (800) 255-3924; +1 (813) 248-0585

Response:

Date Issued: August 30, 2018 Date Revised: August 30, 2018

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Signal

None.

Word:

GHS Not classified as hazardous

Prevention:

Classification:

GHS Hazard None.

Statements:

GHS Precautionary Statements:

None. None.

Storage: Disposal:

None. None.

Hazards Not

Otherwise Classified:

None.

GHS Appro

Approximately 0% of this mixture consists of ingredient(s) of unknown acute toxicity.

Approximately 0% of the mixture consists of ingredient(s) of unknown hazards to the

aquatic environment.

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SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	265-157-1	85.0 - 99.9%
	Classification: Carc. 1B: H350 (*) Carc. 1B; H350: C ≥ 3.0 % DMSO Repr. 2; H361d: C ≥ 3.0 % DMSO Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm2/s (40°C)		

Note (*): Components are highly refined and this hazard does not apply.

Other components are either non-hazardous or do not significantly contribute to the hazards of the product. Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has

been withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, flush skin with plenty of soap and water while removing

contaminated clothing and shoes. Get medical attention immediately if irritation

develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, immediately call a physician or poison control center.

> DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by

mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away

> from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin

artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Effects - Acute and

Delayed:

Important Symptoms / Mild tissue inflammation, nausea.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Treat surrounding material. Water spray, dry chemical, carbon dioxide, or Extinguishing Media:

foam is recommended. Carbon dioxide can displace oxygen. Use caution

when applying carbon dioxide in confined spaces.

This product is not flammable, but will burn in a fire. This product may give Specific Hazards:

rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive

and/or toxic.

Protective equipment and procedures for fire-fighters. Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

ACCIDENTAL RELEASE MEASURES SECTION 6

Spill Procedures: Small spills: Wipe up spills with an absorbent towel/material and transfer

> into suitable containers for recovery or disposal. Finally flush area with water/soap or an appropriate solvent, as this product is not appreciably

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SECTION 6 ACCIDENTAL RELEASE MEASURES

soluble in water alone.

Large spills: Contain spilled material if possible. Pump into suitable and

properly labeled containers.

Personal Precautions: Wear suitable protective clothing and equipment.

Environmental Precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling: Wear appropriate personal protection (See Section 8) when handling this material.

The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors, mists or sprays. Use in a well-ventilated area.

Storage: Keep container(s) tightly closed. Use and store this material at room temperature

away from sources of ignition, heat, direct sunlight and hot metal surfaces. Keep

away from any incompatible materials (see Section 10).

Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure

Standards:

Exposure limits are listed below, if they exist.

Petroleum distillates, hydrotreated heavy

paraffinic:

(as petroleum distillates – naphtha) NIOSH REL: 350 mg/m3 TWA. NIOSH REL: 1800 mg/m3 STEL.

OSHA PEL: 500 ppm (2000 mg/m3).

(as oil mist)

NIOSH REL: 5 mg/m3 TWA. NIOSH STEL: 10 mg/m3 TWA. OSHA PEL: 5 mg/m3 TWA.

Engineering Control

Measures:

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local

exhaust), and control of process conditions.

Respiratory Protection: A NIOSH certified self-contained breathing apparatus or air purifying

respirator with an organic cartridge may be used under conditions where

airborne concentrations are expected to exceed exposure limits.

Hand Protection: The use of gloves impervious to the specific material handled is advised to

prevent skin contact, possible irritation and skin damage (see glove

manufacturer literature for information on permeability).

Eye Protection: Approved eye protection (safety glasses with side-shields or goggles) to

safeguard against potential eye contact, irritation, or injury is recommended.

Depending on conditions of use, a face shield may be necessary.

Body Protection: Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear to pale amber

Odor: Characteristic

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PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9**

Not available. Odor Threshold: :Ha Not available.

Melting Point/Range (°C/°F): -27°C / -16.6°F (pour point)

Boiling Point/Range (°C/°F): > 200°C / 392°F (based on constituents)

Flash Point (PMCC) (°C/°F): 200°C / 392°F Evaporation Rate: Not available. Flammability / Explosivity Limits in Air (%): Not available.

Vapor Pressure: < 0.075 mmHg (20°C) (based on constituents)

Vapor Density (Air = 1): Not available.

Relative Density: 0.867 g/cm3 (15.6°C)

Solubility in Water: Insoluble Partition Coefficient: Not available.

> 250°C / 482°F (based on constituents) Autoignition Temperature (°C/°F):

Decomposition Temperature (°C/°F): Not available.

Viscosity: 45.9 mm2/s (40°C)

6.9 mm2/s (100°C)

Explosive Properties: None. Oxidizing Properties: None.

Volatile Organic Content (VOC) (g/l): 850 - 867 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Product will not undergo additional reaction. Reactivity: Stable under normal storage conditions. Stability:

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Contact with incompatible materials, excessive heat.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition

Products:

Oxides of carbon, aliphatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity: This product is not expected to be appreciably toxic.

(Petroleum distillates, hydrotreated heavy paraffinic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rabbit) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) > 5.53 mg/l (4 hr) (aerosol) (no mortality – similar oil)

Skin Corrosion / Irritation: The product may be slightly irritating to the skin.

(Petroleum distillates, hydrotreated heavy paraffinic) Mildly irritating to skin

(rabbit - similar oil).

Serious Eye Damage /

The product may be slightly irritating to the eyes. Irritation:

(Petroleum distillates, hydrotreated heavy paraffinic) Non-irritating to eyes

(rabbit - similar oil).

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SECTION 11 TOXICOLOGICAL INFORMATION

Respiratory or Skin The product is not expected to be dermally sensitizing.

Sensitization: (Petroleum distillates, hydrotreated heavy paraffinic) Not dermally sensitizing

(guinea pig – similar oil).

Mutagenicity: This product is not expected to be mutagenic.

(Petroleum distillates, hydrotreated heavy paraffinic) Not mutagenic (in vitro mammalian chromosome aberration test and micronucleus assay - similar

oil).

Carcinogenicity: This product is not expected to be carcinogenic.

(Petroleum distillates, hydrotreated heavy paraffinic) Carcinogenic potential is reduced for highly refined distillates. Tumors have developed in animal studies, but were dependent on the concentration of impurities. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents).

Reproductive /

This product is not expected to be reproductively or developmentally harmful.

Developmental Toxicity: (Petroleum distillates, hydrotreated heavy paraffinic) Reproductive

performance and offspring development were not adversely affected in

mice or rats (1000 mg/kg - similar oil).

Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure: (Petroleum distillates, hydrotreated heavy paraffinic) No data.

Chronic/Subchronic
Toxicity: Specific Target
Organ/Systemic Toxicity –
Repeated Exposure:

(Petroleum distillates, hydrotreated heavy paraffinic) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/discoloration of organs and atrophy in male sex organs (similar oil).

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Aspiration Hazard: This product does not pose an appreciable aspiration hazard.

Additional Information: None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity: This product is not expected to be appreciably harmful to aquatic species.

(Petroleum distillates, hydrotreated heavy paraffinic) LL50 (Fathead minnow) > 100 mg/l/96 hr (similar oil); EL50 (Daphnia magna) > 10000 mg/l/48 hr (similar oil); NOEL (algae) > 100 mg/l/72 hr (similar oil).

Mobility: (Petroleum distillates, hydrotreated heavy paraffinic) Not expected to be

mobile in soil.

Persistence/Degradability: (Petroleum distillates, hydrotreated heavy paraffinic) Not inherently

biodegradable (2-4% in 28 days - similar oil).

Bioaccumulation: (Petroleum distillates, hydrotreated heavy paraffinic) May contain

constituents with the potential to bioaccumulate.

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal

regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations,

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SECTION 13 **DISPOSAL CONSIDERATION**

mixtures, processes, etc. may render the resulting materials hazardous.

Do not remove label until container is thoroughly cleaned. Empty Container Disposal:

containers may contain hazardous residues. This material and its

container must be disposed of in a safe way.

TRANSPORT INFORMATION SECTION 14

DOT (US):

Proper Shipping Name: Not regulated

UN Number: None. Class: None. Packaging Group: None. Reportable Quantity: None. Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated

UN Number: None. Class: None. Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated

UN Number: None. Class: None. Packing Group: None. Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control All components of this product are in compliance with the inventory

listing requirements of the U.S. Toxic Substances Control Act (TSCA) Act:

Chemical Substance Inventory.

Canadian Domestic Substance

List:

All components of this product are listed on the Canadian Domestic

Substance List.

EU REACh: One or more components of this product may not have been pre-listed or

registered under REACh. Limited quantities may be permitted.

TSCA Sec.12(b) Export

Notification:

This product does not contain a chemical at or above de minimis

Canadian WHMIS

Classification:

concentrations which requires reporting.

This product has been classified in accordance with the hazard criteria of

the CPR and the SDS contains all of the information required by the

CPR.

None.

Massachusetts Right-To-Know: This product contains materials subject to disclosure under the

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SECTION 15 REGULATORY INFORMATION

Massachusetts Right-To-Know Law:

- Petroleum distillates, hydrotreated heavy paraffinic (as petroleum

distillates)

New Jersey Right-To-Know: This product contains materials subject to disclosure under the New

Jersey Right-To-Know Law:

- Petroleum distillates, hydrotreated heavy paraffinic (as petroleum

distillates)

Pennsylvania Right-To-Know: This product contains materials subject to disclosure under the

Pennsylvania Right-To-Know Law:

- Petroleum distillates, hydrotreated heavy paraffinic (as petroleum

distillates)

California Proposition 65: This product does not contain materials which the State of California has

found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40

CFR 370):

None.

SARA TITLE III-Section 313

(40 CFR 372):

This product does not contain materials which are listed in Section 313

at or above de minimis concentrations.

CERCLA Hazardous

Substance (40 CFR 302)

This product does not contain materials subject to reporting under

CERCLA and Section 304 of EPCRA.

Water Hazard Class (WGK): This product is slightly water-endangering (WGK=1).

Taiwan (TCSI):

Other Chemical Inventories: Australia (AICS): All components of this product are listed.

> China (IECSC): All components of this product are listed. Japan (ENCS): One or more components are not listed. Korea (KCI): One or more components are not listed.

> Philippines (PICCS): All components of this product are listed.

> > One or more components are not listed.

OTHER INFORMATION **SECTION 16**

NFPA Rating - HEALTH:

NFPA Rating - FIRE: 1

NFPA Rating - REACTIVITY:

NONE NFPA Rating - SPECIAL:

Full text of H-Statements referred

to under Section 3:

H304 May be fatal if swallowed and enters airways

H350 May cause cancer

H361 Suspected of damaging fertility or the unborn child

SDS Date Issued: August 30, 2018

SDS Current Version: 1.0 Version Date: August 30, 2018

SDS Revision History: v1.0 Initial version.

GHS: Globally Harmonized System of Classification and Labeling of Abbreviations:

Chemicals

CAS#: Chemical Abstract Services Number

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SECTION 16 OTHER INFORMATION

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

NFPA: National Fire Protection Association DOT: US Department of Transportation

RCRA: US Resource Conservation and Recovery Act

TLV: Threshold Limit Value
TWA: Time-Weighted Average
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit

WEEL: Workplace Environmental Exposure Levels
AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%
NOAEL: No Observed Adverse Effect Level
NOEL: No Observed Effect Level

NOEL: No Observed Effect Level
EC50: Effective Concentration 50%
LL50: Lethal Loading Rate 50%
BCF Bioconcentration Factor
BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

Tlm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET

Patty's Toxicology, 5th Edition

European Commission's Institute for Health and Consumer Protection

European Chemicals Agency (ECHA)

American Conference of Governmental Industrial Hygienists

International Agency for Research on Cancer United States National Toxicology Program

United States Occupational Safety and Health Administration

United States Department of Transportation Supplier Material Safety Data Sheets

Disclaimer: The data contained herein is based on information that the company

believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of the company is authorized to vary any of such data. The company and its agents disclaim all liability for any action taken or

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