

SECTION I

CHEMICAL, PRODUCTS & COMPANY IDENTIFICATION

Aviation Fluid Service, A division of TBM, INC.

950 KINGSLAND AVENUE
 ST. LOUIS, MO 63130
 TELEPHONE: 800-825-1128
 FAX: 314-721-4990

24-HOUR EMERGENCY RESPONSE

U.S.A. (Chemtrec) 1-800-424-9300
 INTERNATIONAL 212-483-7616

SUBSTANCE: AFS-682, HYDRAULIC ASSEMBLY LUBRICANT

TRADE NAMES/SYNONYMS: AFSNA702

CREATION DATE: 03/19/93

CHEMICAL NAME: MIXTURE

REVISION DATE: 10/28/05

LAST REVIEW DATE: 10/28/05

SECTION II

COMPOSITION and INFORMATION ON INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	SARA TITLE 313
Acrylic copolymer	38-42%		--
Interchangeable neutral oils:	58-62%		
Solvent-Dewaxed Heavy Paraffinic Distillate		64742-65-0	--
Solvent-Refined Heavy Paraffinic Distillate		64742-54-7	--
Solvent-Refined Heavy Paraffinic Distillate		64741-88-4	--
C.I. Solvent Red 164	1- 3%	71819-51-7	--

SARA TITLE III This product is not a hazardous chemical under 29 CFR 1910.1200 and therefore is not covered by Title III of SARA, Section 311/312 (40 CFR 370).
 This product does not contain a chemical which is listed in Section 313 at or above the minimum concentrations.

EXPOSURE LIMIT INFORMATION

ACGIH TLV-TWA	5 mg/m3 (mist)	ACGIH TLV-STEL	10 mg/m3 (mist)
NIOSH REL-TWA	5 mg/m3	NIOSH REL-STEL	10 mg/m3
OSHA PEL-TWA	5 mg/m3	Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered to be hazardous. OSHA has established a PEL for worker exposure to airborne mists of the mineral oil of component of this product. The use of this product is not expected to result in the generation of workplace mists.	

SECTION III

PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE(COLOR, STATE):	Red, viscous liquid	SPECIFIC GRAVITY(Water=1):	0.8908 (0.90g/cm3@15°C)
ODOR:	Sweet	WATER SOLUBILITY:	Not determined
BOILING POINT:	> 316°C	VAPOR PRESSURE:	< 1.3 hPa @ 20°C
FLASH POINT: (Pensky Martens Closed Cup)	125°C	VISCOSITY (Kinematic):	1,000-1,450 mm2/s @ 99°C
pH-VALUE	Not Applicable	SETTING POINT:	- 4°C
IGNITION TEMPERATURE:	Not determined		

SECTION IV

FIRE and EXPLOSION HAZARD DATA

FIRE FIGHTING MEASURES

UNUSUAL HAZARDS:

Combustion generates toxic fumes of the following type:
Nitrogen oxides Sulfur oxides

EXTINGUISHING AGENTS:

Carbon Dioxide Dry Chemical Water spray

PERSONAL PROTECTIVE EQUIPMENT:

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH Approved or equivalent). Wear full protective gear.

SECTION V

REACTIVITY DATA

STABILITY

This material is considered stable, however, avoid temperatures above 204°C.

HAZARDOUS DECOMPOSITION PRODUCTS

Methacrylate monomers (in case of thermal decomposition).

HAZARDOUS POLYMERIZATION

Product will not undergo polymerization.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

SECTION VI

HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY Material may enter through eye contact and skin contact.

HEALTH HAZARDS

EYE CONTACT

If splashed into the eyes, the material will cause a slight irritation. Flush eyes immediately, utilizing an Eye Wash Station, if available, otherwise use copious amounts of water. Consult a physician.

INGESTION

If product is swallowed, do not induce vomiting. Call a physician immediately.

INHALATION

If difficulty in breathing is observed, move subject to fresh air and keep the person calm. If breathing has stopped, give artificial respiration. Maintain airway and blood pressure and administer oxygen if available. Qualified personnel should perform administration of oxygen. Seek medical attention immediately.

SKIN CONTACT

Repeated and prolonged contact may cause de-fatting of the skin, which may result in a slight irritation. If skin contact occurs, remove any contaminated clothing and wash area thoroughly with soap and water to remove all residue. Apply a skin moisturizer. If irritation occurs, consult a physician.

NOTE TO PHYSICIAN

Product is soluble in medial white oil (BP) and / or paraffin oil.

TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat	> 5,000 mg/kg
Acute dermal toxicity	LD50 rabbit	> 5,000 mg/kg
Irritant effect on the skin	rabbit	practically not irritating
Irritant effect on the eyes	rabbit	inconsequential irritation

REGULATORY INFORMATION

	HMIS	NFPA
Health	3	3
Flammability	1	1
Reactivity	0	0

SECTION VII

HANDLING and SAFE USE INFORMATION

SPILLS, LEAKS

PERSONAL PROTECTION Wear a MSHA/NIOSH approved (equivalent) half-mask, air-purifying respirator. Wear compatible, chemically resistant gloves. Wear protective clothing, including chemically resistant apron or other impervious clothing and rubber overshoes or rubber boots. After cleanup, remove all contaminated clothing immediately and bathe thoroughly.

CLEANUP PROCEDURES Floor may be slippery. Use care to avoid falling. Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate, suitable containers for recovery or disposal. Dispose of in accordance with local, state, and federal laws and regulations.

CAUTION: Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

STORAGE CONDITIONS

Keep in temperature range between a minimum of 0°C up to a maximum of 85°C. Low temperature storage can cause handling problems. Viscosity of material will increase.

HANDLING PRECAUTIONS

Avoid formation of oil mist. Ensure the area is well ventilated.

DISPOSAL PROCEDURES

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

SECTION VIII

CONTROL MEASURES

PERSONAL PROTECTIVE CLOTHING (PPE)

- RESPIRATOR Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator.
GLOVES Wear nitrile rubber gloves to protect against permeation. Gloves should be removed and replaced immediately if there is any sign of degradation or chemical breakthrough.
EYE PROTECTION Wear splash proof chemically resistant goggles.
OTHER CLOTHING Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.
EYE WASH STATION Facilities storing or utilizing this material should be equipped with an eye wash station.

VENTILATION

Local exhaust system.

HYGIENE

Always practice good hygiene by washing hands thoroughly after handling material.

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SECTION IX MISCELLANEOUS INFORMATION and PRECAUTIONS

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ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

Ecotoxicological effect

Further information on ecology

Ecological data are not available.

CERCLA (40 CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA), Title III, Section 304.

WASTE CLASSIFICATION

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

WORLDWIDE INVENTORY CLASSIFICATION

This product is in compliance with the inventory listing requirements of the Chemical Control Laws in the following countries:

- Australia
- Canada
- European Union
- Japan
- Korea
- United States of America

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SECTION X TRANSPORTATION INFORMATION

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Not a dangerous good within the meaning of transportation regulations.

The information contained herein is believed to be true and accurate, but is not guaranteed or warranted, either expressed or implied, whether originating with the company or not. Customers are advised to make their own determination as to the suitability for their particular application and to confirm that information is current.