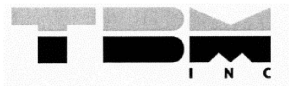


Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Section 1: Identification

Product Identifier AFS-682

Trade Name(s): AFSNA702

Product Name: Hydraulic Assembly Lubricant

Product Code:

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

Recommended use: Oil Additive

Details of the supplier of the safety data sheet

Manufacturer TBM, INC.
8506 Herrington Court
Pevely, MO 63070
United States
fsptbm.com

Telephone (General) 800-825-1128
Fax 314-721-4519

Emergency telephone number

Manufacturer 800-424-9300 – CHEMTREC
49-6151-18-4342 – Germany
33-3-88-73-60-00 – France
01-613-996-6666 – Canada (Canutec)

Section 2: Hazard Identification

Classification of the substance or mixture

This mixture is not classified according to GHS-Classification as per UN-GHS

Label elements

Pictogram

Not applicable

Hazard statements

Not Applicable

Section 3: Composition/Information on Ingredients

Mixtures

Component	Percentage	CAS Number	Hazard Class
Acrylic Copolymer	30-60%		Not Applicable
Interchangeable neutral oils	40-70%		Asp. Tox. 1; H304
Distillates(petroleum), solvent-dewaxed light Paraffinic; baseoil-unspecified		64742-65-0	
Distillates(petroleum), solvent-dewaxed light Paraffinic; baseoil-unspecified		64742-56-9	
C.I. Solvent Red 164	1-3%	71819-51-7	

Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Section 4: First-Aid Measures

Description of first aid measures

Inhalation	Move subject to fresh air and keep them calm. See a physician
Skin	Wash off immediately with soap and water. If skin irritation occurs consult a physician.
Eye	Flush eyes thoroughly with a large amount of water and consult a physician
Ingestion	Do not induce vomiting. Seek medical attention immediately.

Most important systems and effects, both acute and delayed

Product has a dermal defatting effect

Indication of any immediate medical attention and special treatment needed

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

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
Dry Chemical, Carbon Dioxide, Foam
Do Not Use Water

Special hazards arising from the substance or mixture

In fires, hazardous combustion gasses are formed: Carbon Oxides

Advice for firefighters

Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapors / dust / mist / aerosol.

Environmental precautions

Prevent product from getting into subsoil / soil. Prevent product from getting into drains / surface water / ground water.

Methods and material for containment and cleaning up

Non-solid Ground (soil, etc.): Mechanical removal of the polluted surface.

Solid Ground (concrete, etc.): Absorb with dry sand, possibly by heating.

Dispose of contaminated material in accordance with regulations.

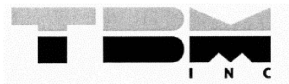
Section 7: Handling and Storage

Precautions for safe handling

Safe Handling Advice Avoid formation of oil mist. Ensure there is good room ventilation.

Advice on protection against When heated above the flash point and/or during spraying (atomizing), ignitable

Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Fire and explosion mixtures may form in air. In the event of fire, cool the endangered containers with water

Conditions for safe storage, including and incompatibilities

Storage Keep container tightly closed and in a well ventilated place. Do not store at temperatures above 100 degrees Celsius. Low temperature storage can cause handling problems. Viscosity of material will increase.

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Do not breathe vapors. Avoid contact with eyes and skin.

Personal Protective Equipment

Respiratory not required on normal handling

Eye/Face tightly fitting goggles

Hands nitrile rubber gloves (minimal thickness 0.33 mm), break through time >480 min (EN 374)
Butyl rubber gloves (minimal thickness 0.7 mm), break through time >120 min (EN 374)

In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protective glove. In particular, this information does not substitute suitability tests by the end user.

Skin/Body splash protective clothing

General Industrial Hygiene Considerations

Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Store work clothing separately. Use skin protective preparation as preventive skin protection. Cloths contaminated with the product should not be kept in trouser pockets.

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Form liquid
Color yellow to amber
Odor sweet
Setting Point not available
Boiling Point not available
Flash Point >120 C (ASTM D 3278)
Ignition Temp not available
Lower Explosion Limit not available
Upper Explosion Point not available
Vapor Pressure <1 hPa (20 C)
Density 0.9 g/cm³ (15 C)(ASTM D 4052)
Relative Vapor Density >1 (20 C)
(related to air)

Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Solubility in water practically insoluble
pH not applicable
Viscosity (kinematic) ca. 1.200mm²/s (100 C)(ASTM D 225)

Section 10: Stability and Reactivity

Reactivity

Chemical Stability

This material is considered stable under specified conditions of storage, shipment, and/or use.

Possibility of Hazardous Reactions

No dangerous reactions known.

Conditions to avoid

High temperature, Depolymerization begins at 200 C

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

None when used as directed.

Under conditions of thermal decomposition: Methacrylates

When overheated: oil vapors

Section 11: Toxicological Information

Information on Toxicological Effects

General Information There are no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of the products vapors.

Acute Oral Toxicity LD50 rat, (analogy) >2.000 mg/kg

Acute Dermal Toxicity LD50 Rabbit, (analogy) >2.000 mg/kg

Caustic burning/irritation
Of skin If contact with skin is prolonged and/or frequent, irritations cannot be excluded.
the product has a degreasing effect on skin. (analogy)

Serious eye damage/irritation Contact with the eyes may cause irritation. (analogy)

Human health hazard assessment CMR: no

Section 12: Ecological Information

General Information Prevent substance from entering soil, natural bodies of water and sewer systems.

Toxicity

Hazardous to the Aquatic
Environment no evidence for hazardous properties (structure-activity-relationships)
(analogy)

Persistence and degradability

no evidence for hazardous properties (structure-activity-relationships)(analogy)

Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Bio accumulative potential

No specific test data available, no evidence for hazardous properties (structure-activity-relationships)(analogy)

Mobility in Soil

No specific test data available, no evidence for hazardous properties (structure-activity-relationships)(analogy)

Section 13: Disposal Considerations

Waste treatment methods

Product waste Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Packaging waste contaminated packages must be emptied as good as possible. They may then be recycled after proper cleaning. Packages that cannot be cleaned must be disposed of in the same way as the substance.

Code of Waste(EWC) **13 02 05** – waste engine, gear, and lubricating oils – mineral based non-chlorinated engine, gear, and lubricating oils

Always check the given waste codes according to the actual conditions of manufacturing, formation or use in your facilities.

Section 14: Transport Information

Transport on land ADR/GGVSEB

Not dangerous according to transport regulations.

Transport on land RID/GGVSEB

Not dangerous according to transport regulations.

Inland waterway transport ADN/GGVSEB (Germany)

Not dangerous according to transport regulations.

Shipment by sea IMDG/GGVSEE

Not dangerous according to transport regulations.

Air Transport ICAO/IATA

Not dangerous according to transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
for transport approval see regulatory information

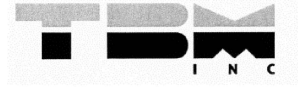
Section 15: Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

VH-SDS-AFS682

Revision A 06/26/2018

Safety Data Sheet



AFS-682

Hydraulic Assembly Lubricant

Classification as per Directive 67/548/EC or Directive 1999/45/EC

Labeling in accordance with Directive 1999/45/EC not applicable

National Legislation

WGK – Water Hazard Class 1 (VwVwS, annex 4)

Status of Registration

REACH (EU)	preregistered, registered, or exempted
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted
ECS (Taiwan)	listed or exempted

HSR002605, Lubricants (low hazard) Group Standard 2006

Section 16 – Other Information

Last Revision Date

02.04.2014

Preparation Date

10.26.2015

Revision A: 06/26/2018, added trade name information.

Disclaimer/Statement of Liability

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