

#### To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States) The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team Zep Inc.



# S-OIL SEVEN HKM ATF SP-IV M1

Date of the previous version: 2024-05-16 Revision Date: 2024-07-12 Version

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name S-OIL SEVEN HKM ATF SP-IV M1

Pure substance/mixture Mixture

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

Recommended Use ATF

## 1.3. Details of the supplier of the safety data sheet

Supplier S-OIL CORPORATION

192, Baekbeom-ro, Mapo-gu, Seoul 121-805, Korea

For further information, please contact:

Contact Point S-OIL

#### 1.4. Emergency telephone number

Korea + 82 2 1644 5151

## 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**GHS Classification** 

Hazardous to the aquatic environment-Chronic (long term) aquatic toxicity: Category 3

#### 2.2. Label elements

GHS label elements, including precautionary statements

Symbol(s) Not Classified
Signal Words Not Classified

#### 2.3. GHS Hazard Statements

H412 Harmful to aquatic life with long lasting effects.

## 2.4. GHS Precautionary Statements

**Prevention** P273 Avoid release to the environment

Response Not Classified

Storage Not Classified

Disposal P501 Disposal of contents/container to... (in accordance with local/regional/national/

international regulation.)



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#### 2.5. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **3.1. Mixture**

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	80.0 ~ 85.0
Mixed Performance Additive	1	-	5.0 ~ 10.0
Viscosity Modifier Additive	1		5.0 ~ 10.0
Motor Oil Additive	-	-	< 1.0
Polymer Esters of Methacrylic Acid and Mixed Mixed long chain Alcohols	-	-	< 1.0

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by

IP 346

## 4. FIRST AID MEASURES

## **4.1. Description of first-aid measures**

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR

OR EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact** Remove contaminated clothing and shoes. Wash skin with soap and water.

Wash contaminated clothing before reuse.

High pressure jets may cause skin damage. In this case, the casualty should be

sent immediately to hospital.

**Inhalation** Move to fresh air.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

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

Eye contact Not classified.

**Skin contact**Not classified. High pressure injection of the products under the skin may have

very serious consequences even though no symptom or injury may be

apparent.

**Inhalation** Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.



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## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

#### **5. FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media No information available

#### 5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity

such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These maybe highly dangerous if inhaled in confined spaces or at

high concentration.

#### 5.3. Advice for fire-fighters

Special protective equipment for fire-

fighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

## **6. ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be

extremely slippery.

Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

# **6.2. Environmental precautions**

General Information Do not allow material to contaminate ground water system. Try to prevent the

material from entering drains or water courses.

Local authorities should be advised if significant spillages cannot be contained.

#### 6.3. Methods and material for containment and cleaning up

Methods for containment Dam up. Contain spillage, and then collect with non-combustible absorbent

material, (e.g.sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Keep in suitable, closed containers for disposal.

## **6.4. Reference to other sections**

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.



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#### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8.

Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid

contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond

containers, tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the

risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage Keep away from food, drink and animal

conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from

frost, heat and sunlight. Protect from moisture.

Materials to Avoid Strong oxidizing agents.

Fire service Act (Japan) Category IV; Inflammable Liquids, Class III petroleums(Non-water soluble

liquid), (Designated quantity: 2,000L)

## 7.3. Specific end uses

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **8.1. Control parameters**

Exposure limits oil mist: 10mg/m<sub>3</sub>, for 15 minutes; oil mist: 5mg/m<sub>3</sub>, for 8 hours

**Legend** See section 16.

## 8.2. Exposure controls

**Occupational Exposure Controls** 

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits.

When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal Protective Equipment** 

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection When workers are facing concentrations above the exposure limit they must use



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appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

**Eye Protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Hand Protection Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the

supplier of the EC approved gloves.

**Environmental exposure controls** 

**General Information** The product should not be allowed to enter drains, water courses or the soil.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Color Yellow To amber

Physical State @20°C liquid

**Odor** Characteristic

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

pH Not applicable
Boiling point/boiling range Not applicable

Flash point 214 °C Cleveland Open Cup (COC) 417 °F Cleveland Open Cup (COC)

Evaporation rateNo information availableFlammability Limits in AirNo information availableVapor PressureNo information available

Vapor PressureNo information availableVapor densityNo information available

**Density** 844 kg/m<sub>3</sub> @ 15 °C Water solubility Negligible Insoluble

Water solubility Negligible Insoluble Solubility in other solvents No inform

Solubility in other solvents

No information available
logPow

No information available

Autoignition temperatureNot applicableViscosity, kinematic5.4 mm²/s@ 100 °CExplosive propertiesNot explosive

Oxidizing Properties
Possibility of hazardous reactions
Not applicable
Not applicable

## 9.2. Other information

## 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

**General Information** No information available.

### 10.2. Chemical stability

Stability. Stable under recommended storage conditions.



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#### 10.3. Possibility of hazardous reactions

**Hazardous Reactions** None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

**10.6. Hazardous Decomposition Products** 

Hazardous Decomposition Product None under normal use.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### **Acute toxicity Local effects Product Information**

Skin contact . Not classified. High pressure injection of the products under the skin may have very

serious consequences even though no symptom or injury may be apparent.

Eye contact . Not classified.

**Inhalation** . Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

**Ingestion** . Not classified.

**Acute toxicity - Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Severely hydrogenated heavy paraffinic distillate	LD50 > 5,000mg/kg (Rat)	LD50 > 5,000mg/kg (Rabbit)	
Mixed Performance Additive	LD50 > 10,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	
Viscosity Modifier Additive	LD50 > 5,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	
Motor Oil Additive	LD50 > 10,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	

Eye contact

Mixed Performance Additive Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36 criteria.

Based on data from components or similar materials. Vapors formed from heating

may cause eye irritation.

Additive 1 Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from

similar materials.

**Sensitization** 

**Sensitization** Not classified as a sensitizer.

**Specific effects** 



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CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.

**Reproductive toxicity**This product does not present any known or suspected reproductive hazards.

**Repeated Dose Toxicity** 

**Subchronic toxicity** No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

## 12. ECOLOGICAL INFORMATION

## **12.1. Toxicity**

**Acute aquatic toxicity - Product Information** 

No information available.

**Acute aquatic toxicity - Component Information** 

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Mixed Performance Additive		EC50 10-100mg/L	LC50 10-100 mg/L	
Viscosity Modifier Additive			LC50 >1,000mg/L	EC50 >1,000mg/L
Motor Oil Additive	EC50 10-100mg/L	EC50 1-10mg/L		

## **Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information** 

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Mixed Performance Additive		EC50 1-10mg/L		
Motor Oil Additive		EC50 10-100mg/L		

Effects on terrestrial organisms No information available.

12.2. Persistence and degradability

12121 1 Claisterioc and degradability		
Chemical Name	Biodegradation	
Mixed Performance Additive	Min 25% (OECD 301)	
Viscosity Modifier Additive	Min 25% (OECD 301)	



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Motor Oil Additive Min 25% (OECD 301, 302)

**General Information** No information available.

12.3. Bioaccumulative potential

Product InformationNo information available.logPowNo information availableComponent InformationNo information available.

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.

Water Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

General Information No information available

#### 13. DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

Waste from Residues / Unused

**Products** 

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with

local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**EWC Waste Disposal No.**The following Waste Codes are only suggestions: 13 01 10. According to the

European

Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the

product was used.

#### 14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated



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#### 15. REGULATORY INFORMATION

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

#### **International Inventories**

**EINECS/ELINCS** All components are listed or exempted.

All components of this product are in compliance with the inventory listing **TSCA** requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical

Substance Inventory.

All intentional components are listed on the inventory, are exempted, or are **KFCI** 

supplier certified.

CSCL,ISHA,PDSCL,PRTR

All components are in compliance with designated reguations. (JAPAN)

#### Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**KECL** - Korean Existing and Evaluated Chemical Substances

CSCL - Chemical Substances Control Law ISHA - Industrial Safety and Health Act

PDSCL - Poisonous and Deleterious Substances Control Law

PRTR - Pollutant Release and Transfer Register Law

## **Further information**

#### **15.2. Chemical Safety Assessment**

No information available **Chemical Safety Assessment** 

Category IV; Inflammable Liquids, Class III petroleums(Non-water soluble liquid), Fire service Act (Japan)

(Designated quantity: 2,000L)

#### **16. OTHER INFORMATION**

#### Abbreviations, acronyms

Legend Section 8

Sensitizer Skin designation Hazard Designation C: Carcinogen M: Mutagen Toxic to reproduction R:

**Revision Date:** 2024-07-12

**Revision Note** \*\*\* Indicates updated section.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by theuser that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet