

S-OIL SEVEN ATF DEXRON VI

Date of the previous version: 2015-04-10 Revision Date: 2023-08-04 Version 3

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

1.1. Product identifier

Product name S-OIL SEVEN ATF DEXRON VI

Pure substance/mixture Mixture

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

Recommended Use Automatic transmission fluid

1.3. Details of the supplier of the safety data sheet

Supplier S-OIL CORPORATION

192, Baekbeom-ro, Mapo-gu,

Seoul 04196, Korea

For further information, please contact:

Contact Point HSSEC

E-mail Address dolyoo@stlc.co.kr

1.4. Emergency telephone number

Korea + 82 2 527-6052

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification

Hazardous to the aquatic environment - Chronic - 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 - Dispose of contents/container to an approved waste disposal plant



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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 %
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	40.0 ~ 48.0
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	40.0 ~ 48.0
Mixed performance additive	Mixture	-	9.0 ~ 14.0
Colorant for petroleum products	Mixture	-	< 0.1

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 Immediately flush with plenty of water. After initial flushing, remove any contact

lenses and continue flushing for at least 15 minutes. Keep eye wide open while

rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to

hospital.

Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, give artificial respiration.

Ingestion Clean mouth with water. 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.



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

and diarrhea.

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 Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

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 containmentDike to collect large liquid spills. If necessary dike the product with dry earth,

sand or similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil

contamination, remove contaminated soil for remediation or disposal, in

accordance with local regulations.

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.



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Waste treatment See section 13.

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 conditions Keep away from food, drink and animal feeding stuffs. 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.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits Mineral oil mist :

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) 5 mg/m³, STEL 10 mg/m³,

ACGIH (TLV) TWA 5 mg/m³ (highly refined)

Legend See section 16.

8.2. Exposure controls

Occupational Exposure Controls

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

Ensure adequate ventilation, especially in confined areas. 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 Protective engineering solutions should be implemented and in use before personal

protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is



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suggested that you contact the relevant PPE suppliers.

exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387): Type A/P1. Warning ! filters have a limited use duration. 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. EN 166.

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

Type 4/6.

Hand Protection Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. In case of prolonged

contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0.38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency. 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, and the contact time.

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

Physical State @20°C liquid
Odor Characteristic

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

Not applicable

Boiling point/boiling range Not applicable

Flash point 222 °C
Evaporation rate No information available

Flammability Limits in Air No information available

Vapor Pressure No information available

Vapor density

No information available

Density846 kg/m3@ 15 °CWater solubilityNegligibleInsoluble

Water solubility Negligible Insoluble

Solubility in other solvents No information available

 logPow
 No information available

 Autoignition temperature
 Not applicable

Not applicable

Not applicable

Viscosity, kinematic 29.5 mm²/s @ 40 °C

6.06 mm²/s @ 100 °C **Explosive properties**Not explosive

9.2. Other information

Possibility of hazardous reactions

Oxidizing Properties

10. STABILITY AND REACTIVITY

Cleveland Open Cup (COC)



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10.1. Reactivity

General Information None under normal processing.

10.2. Chemical stability

Stability. Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat

and sparks.

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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Acute toxicity - Component Information

Chemical name	Oral	Dermal	Inhalation
Distillates (petroleum), hydrotreated light paraffinic	LD50 > 5000 mg/kg bw (rat – OECD 420)	LD50 > 5000 mg/kg bw (rabbit – OECD 402)	LC50 > 5 mg/l (4h, aerosol) (rat – OECD 403)
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 > 5000 mg/kg bw (rat – OECD 420)	LD50 > 5000 mg/kg bw (rabbit – OECD 402)	LC50 > 5 mg/l (4h, aerosol) (rat – OECD 403)
Colorant for petroleum products	LD50 > 5000 mg/kg (rat, estimated)	LD50 > 5000 mg/kg (rabbit, estimated)	-

Sensitization

Sensitization Not classified as a sensitizer.



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Specific effects

CarcinogenicityThis product is not classified carcinogenic. **Mutagenicity**This product is not classified as mutagenic.

Reproductive toxicityThis 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

1) Acute toxicity

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Distillates (petroleum), hydrotreated light paraffinic	EL50 > 100 mg/l (48h, Pseudokirchnerella subcapitata – OECD 201)	EL50 > 10000 mg/l (48h, Daphnia magna – OECD 202)	LL50 > 100 mg/l (96h, Oncorhynchus mykiss – OECD 203)
Distillates (petroleum), hydrotreated heavy paraffinic	EL50 > 100 mg/l (48h, Pseudokirchnerella subcapitata – OECD 201)	EL50 > 10000 mg/l (48h, Daphnia magna – OECD 202)	LL50 > 100 mg/l (96h, Oncorhynchus mykiss – OECD 203)

2) Chronic toxicity

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Distillates (petroleum), hydrotreated light paraffinic	-	NOEL 10 mg/l (21d, Daphnia magna – QSAR Petrotox)	NOEL > 1000 mg/l (14/28d, Oncorhynchus mykiss – QSAR Petrotox)
Distillates (petroleum), hydrotreated heavy paraffinic	-	NOEL 10 mg/l (21d, Daphnia magna – QSAR Petrotox)	NOEL > 1000 mg/l (14/28d, Oncorhynchus mykiss – QSAR Petrotox)

Effects on terrestrial organisms No information available.

12.2. Persistence and degradability

General Information

No information available.

12.3. Bioaccumulative potential

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



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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. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where

possible recycling is preferred to disposal or incineration.

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

disposal.

Other information Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

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

International Inventories

TSCA

KECL

Legend

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

KECL - Korean Existing and Evaluated Chemical Substances

Further information



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15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

16. OTHER INFORMATION

Abbreviations, acronyms

Legend Section 8

+ Sensitizer * Skin designation

** Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

Revision Date: 2023-08-04

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 the user 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