

MATERIAL SAFETY DATA SHEET

S-OIL SEVEN ATF DEXRON VI

Date of the previous version: 2015-04-10

Revision Date: 2015-04-10

Version 1

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 121-805, Korea |
|----------|---|

For further information, please contact:

1.4. Emergency telephone number

| | |
|-------|------------------|
| Korea | + 82 2 3772-5733 |
|-------|------------------|

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification

2.2. Label elements

GHS label elements, including precautionary statements

| | |
|-----------|----------------|
| Symbol(s) | Not Classified |
|-----------|----------------|

| | |
|--------------|----------------|
| Signal Words | Not Classified |
|--------------|----------------|

2.3. GHS Precautionary Statements

| | |
|------------|----------------|
| Prevention | Not Classified |
|------------|----------------|

| | |
|----------|----------------|
| Response | Not Classified |
|----------|----------------|

| | |
|---------|----------------|
| Storage | Not Classified |
|---------|----------------|

| | |
|----------|----------------|
| Disposal | Not Classified |
|----------|----------------|

2.4. Other hazards

| | |
|------------------------------|---|
| Physical-Chemical Properties | Contaminated surfaces will be extremely slippery. |
|------------------------------|---|

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Environmental properties Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixture**

| Chemical Name | CAS-No | EC-No | Weight % |
|---|------------|-------|-------------|
| Severely hydrogenated heavy paraffinic distillate | 64742-54-7 | - | 85.0 – 90.0 |
| Mixed Performance Additive | Mixture | - | 11.0 – 13.0 |
| Colorant for petroleum products | Mixture | - | < 0.10 |

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. |

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**

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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 may be 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.

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.

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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 feedingstuffs. Keep in a bonded 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**

oil mist : 10mg/m³, for 15 minutes; oil mist : 5mg/m³, 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 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.

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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 | | Red | |
| Physical State @20°C | | liquid | |
| Color | | Characteristic | |
| Property | Values | Remarks | Method |
| pH | | Not applicable | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | 222 °C 432 °F | | Cleveland Open Cup (COC) Cleveland Open Cup (COC) |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| Vapor Pressure | | No information available | |
| Vapor density | | No information available | |
| Density | 846 kg/m ³ | @ 15 °C | |
| Water solubility | Negligible | Insoluble | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | Not applicable | | |
| Viscosity, kinematic | 6.060 mm ² /s | @ 100 °C | |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | 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.

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.

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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. . LD50 > 2000mg/kg (Rabbit, Dermal), Practically non-toxic. |
| Eye contact | . Not classified. |
| Inhalation | . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | . LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic. |

Acute toxicity - Component Information

Sensitization

Sensitization Not classified as a sensitizer.

Specific effects

| | |
|------------------------------|--|
| Carcinogenicity | This product is not classified carcinogenic. |
| Mutagenicity | This 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

| | |
|-------|---------------------------|
| LC 50 | No information available. |
| EC 50 | No information available. |
| IC 50 | No information available. |

Effects on terrestrial organisms No information available.

12.2. Persistence and degradability

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General Information

No information available.

12.3. Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No 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

15. REGULATORY INFORMATION

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

International Inventories

EINECS/ELINCS

TSCA

KECL

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

Further information

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 |

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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 heuser 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