

# MATERIAL SAFETY DATA SHEET

## S-OIL SEVEN PAO 0W40

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

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

#### 1.1. Product identifier

Product name S-OIL SEVEN PAO 0W40  
Pure substance/mixture Mixture

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

Recommended Use Gasoline & Diesel Engine Oil

#### 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 HSEQ  
E-mail Address dolyoo@s-oil-total.com

#### 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.





## MATERIAL SAFETY DATA SHEET

### S-OIL SEVEN PAO 0W40

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

#### 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 feedingstuffs. Keep in a banded 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/m <sup>3</sup> , for 15 minutes; oil mist : 5mg/m <sup>3</sup> , 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
------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## MATERIAL SAFETY DATA SHEET

### S-OIL SEVEN PAO 0W40

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

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  
 Color Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Boiling point/boiling range		Not applicable	
Flash point	246 °C 475 °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	844 kg/m <sup>3</sup>	@ 15 °C	
Water solubility	Negligible	Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	Not applicable		
Viscosity, kinematic	14.00 mm <sup>2</sup> /s 79.70 mm <sup>2</sup> /s	@ 100 °C @ 40 °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.

## MATERIAL SAFETY DATA SHEET

### S-OIL SEVEN PAO 0W40

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

#### **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.  
                                                         . 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).

## MATERIAL SAFETY DATA SHEET

### S-OIL SEVEN PAO 0W40

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

#### 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

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

**MATERIAL SAFETY DATA SHEET****S-OIL SEVEN PAO 0W40**

Date of the previous version: 2014-08-01

Revision Date: 2014-08-01

Version 1

**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**

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

Revision Date: 2014-08-01

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