

# S-OIL SEVEN BLUE #7 CI-4/SL 10W-40

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Version 1

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

### 1.1. Product identifier

Product name	S-OIL SEVEN BLUE #7 CI-4/SL 10W-40
Pure substance/mixture	Mixture

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

Recommended Use

Diesel engine oil.

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

Manufacturer S-OIL CORPORATION 192, Baekbeom-ro, Mapo-gu, Seoul 04196, Korea

#### For further information, please contact:

Contact PointHSSEQE-mail Addressdolyoo@s-oil-total.com

### 1.4. Emergency telephone number

Korea

+82 2 3772 5655

### 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 Hazards Statement

Not Classified

#### 2.4. GHS Precautionary Statements

Prevention	Not Classified
Response	Not Classified
Storage	Not Classified
Disposal	Not Classified

### 2.5. Other hazards



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Physical-Chemical Properties	Contaminated surfaces will be extremely slippery.
Environmental properties	Chauld not be released into the environment

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 HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	-	70.0 ~ 75.0
LUBRICANT ADDITIVE	Mixture	-	10.0~15.0
VISCOSITY MODIFIER ADDITIVE	Mixture	-	10.0~15.0
Polymer Esters of Methacrylic Acid and Mixed Mixed long chain Alcohols	Mixture		< 1.0
POLYMERIZED DIMETHYL SILICONE FLUID	Mixture	-	< 1.0

Hazardous ingredients

Do not contain hazardous substance nor substance with European workplace exposure limits in concentration above regulatory thresholds

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 Carbon dioxide (CO 2). 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 contam

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 precaution	<u>IS</u>	
General Information	Do not allow material to contaminate ground water system. Try to prevent the mater or water courses. Local authorities should be advised if significant spillages cannot	
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		



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### 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 storag	e including any incompatibilities

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

Technical measures/Storage 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.

# 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.
Exposure limits (Component Inf	formation)
8.2. Exposure controls	
Occupational Exposure Control	<u>s</u>
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	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with



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		er for vapour/particulate (EN 14387). The use of the with the manufacturer's instructions and the regules.	
Eye Protection	If splashes are	likely to occur, wear:. Safety glasses with side-sh	nields.
Skin and body protection	Wear suitable p	protective clothing. Protective shoes or boots. Lon	ng sleeved clothing.
Hand Protection	instructions reg supplier of the which the produ mixed with othe	roof gloves. Fluorinated rubber. Nitrile rubber. Ple garding permeability and breakthrough time which gloves. Also take into consideration the specific lo uct is used, such as the danger of cuts, abrasion. er substances, and under conditions which differ f EC approved gloves.	are provided by the ocal conditions under If used in solution, or
Environmental exposure control	<u>s</u>		

**General Information** 

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

Method

Cleveland Open Cup (COC)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Color Physical State @20°C Odor		Yellow to amber liquid Characteristic
Property	Values	<u>Remarks</u>
рН		Not applicable
Boiling point/boiling range		Not applicable
Flash point	200 °C	
Evaporation rate		No information available
Flammability Limits in Air		No information available
Vapor Pressure		No information available
Vapor density		No information available
Density	866kg/m <sup>3</sup>	@ 15 °C
Water solubility		Insoluble
Solubility in other solvents		No information available
logPow		No information available
Autoignition temperature		No information available
Viscosity, kinematic	10.5 mm²/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



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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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Acute toxicity- Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
LUBRICANT ADDITIVE	> 10000mg/kg (Rat)	> 2000mg/kg (Rabbit)	
<u>Sensitization</u>			
Sensitization	No information available.		
Specific effects			
Carcinogenicity			
LUBRICANT ADDITIVE	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.		
Mutagenicity			
LUBRICANT ADDITIVE	No data available to indicat are mutagenic or genotoxic.	e product or any components p	present at greater than 0.1%
Reproductive toxicity			
LUBRICANT ADDITIVE		odecylphenol. Rats given high, ı tion experienced adverse reproc	



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relevance of these effects to humans is uncertain.

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

Not classified.

#### <u>Aquatic toxicity - Product Information</u> No information available.

### Aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
LUBRICANT ADDITIVE		Chronic effects expected at < 1 mg/L	LC50 10 - 100 mg/L (Acute)	EC50 100 -1000ppm (Acute)

#### Effects on terrestrial organisms

No information available.

### **General Information**

No information available.

### 12.2. Persistence and degradability

#### General Information

Persistence	No information available.
degradability	No information available.

#### 12.3. Bioaccumulative potential

Product Information	No information available.

logPow No information available.

### 12.4. Mobility in soil

Soil

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

Air Loss by evaporation is limited.



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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**

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

### **European Union**

### International Inventories

### Further information

### 15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

### **16. OTHER INFORMATION**



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Full text of R-phrases referred to under sections 2 and 3 No information available

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 complies with the requirements of Regulation (EC) No. 1907/2006

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