

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

Date of the previous version: 2019-06-19

Revision Date: 2020-10-06

Version 2.2

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

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

For further information, please contact:

Contact Point	HSSEQ
E-mail Address	dolyoo@s-oil-total.com

1.4. Emergency telephone number

Korea

+82 2 527 6052

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification

Not classified as hazardous

2.2. Label elements

GHS label elements, including precautionary statements

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 PropertiesContaminated surfaces will be extremely slippery.Environmental propertiesShould not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	76.0 ~ 85.0
Mixed performance additive	Mixture	-	7.0 ~ 15.0
Viscosity modifier additive	Mixture	-	4.0 ~ 15.0
Oil solution of acrylic polymer	Mixture		< 1.0
Hazardous ingredients Do not contain hazardous substance nor substance with European workplace exposure limits in concentration above regulatory thresholds			
Additional information Pro	on 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

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR **General advice** 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 Eve contact Not classified. Not classified. High pressure injection of the products under the skin may have Skin contact 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.

<u>4.3. Indication of immediate medical attention and special treatment needed, if</u> <u>necessary</u>

Notes to physician



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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 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 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

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.



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Prevention of fire and explosion	Take precautionary measures against static discharg tanks and transfer/receiving equipment.	ges. Ground/bond containers,	
Hygiene measures	risk of contact with the product. Regular cleaning of clothing is recommended. Wash hands before break handling the product. Do not use abrasives, solvents	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 st	orage, including any incompatibilities		
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs Keep container tightly closed. Keep preferably in the reproduce all indication of the regulation label on the remove the hazard labels of the containers (even if t installations in order to avoid accidental emissions of breakage, for example) onto hot casings or electrical heat and sunlight. Protect from moisture.	e original container. Otherwise e new container. Do not hey are empty). Design the f product (due to seal	
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 Info	mation)		
8.2. Exposure controls			
Occupational Exposure Controls			
Engineering Measures	Apply technical measures to comply with the occupational confined spaces (tanks, containers, etc.), ensure that ther breathing and wear the recommended equipment.		
Personal Protective Equipment			
General Information	If the product is used in mixtures, it is recommended that yo protective equipment suppliers. These recommendation supplied.		
Respiratory protection	None under normal use conditions. When workers are facing exposure limit they must use appropriate certified respirators combination filter for vapour/particulate (EN 14387). The use comply strictly with the manufacturer's instructions and the r choices and uses.	s. Respirator with e of breathing apparatus must	



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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 th supplier of the EC approved gloves.		are provided by the al conditions under ^c used in solution, or
Environmental exposure controls	<u>5</u>		
General Information	The product s	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 Physical State @20°C Odor		Amber liquid Characteristic	
<u>Property</u> pH Boiling point/boiling range	<u>Values</u>	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density	230 °C	No information available No information available No information available No information available	Cleveland Open Cup (COC)
Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic	867.8 kg/m ³ 96.40 mm ² /s	 @ 15 °C Insoluble No information available No information available No information available @ 40 °C 	
Explosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	14.49 mm ² /s Not explosive Not applicable Not applicable	@ 100 °C	

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



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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	Oral	Dermal	Inhalation
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)
Oil solution of acrylic polymer	LD50 > 2000 mg/kg (rat)	LD50 > 2000 mg/kg (rabbit)	-

Skin corrosion/irritation

Chemical name	Skin corrosion/irritation
Mixed performance additive	Classification: Irritating. Rabbit. Remarks: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin. Causes skin irritation.

Serious eye damage/eye irritation

Chemical name	Serious eye damage/eye irritation
Mixed performance additive	Classification: Not irritating Rabbit. Remarks: Not classified as a primary eye irritant.

Sensitization

Sensitization	No information available.
Specific effects	
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards.



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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.

Aquatic toxicity - Product Information No information available.

Aquatic toxicity - Component Information

Acute aquatic toxicity - Component Information

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

Chronic aquatic toxicity - Component Information

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

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.



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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. Insoluble. The product spreads on the surface of the water.			
Water				
12.5. Results of PBT and	vPvB assessment			
PBT and vPvB assessment	No information available.			
12.6. Other adverse effect	ets			
General Information	No information available			
13. DISPOSAL CONSIDER	ATIONS			
13.1. Waste treatment me	ethods			
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.			
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

14. TRANSPORT INFORMATION

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN	Not regulated

used.

15. REGULATORY INFORMATION

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

International Inventories

Further information

15.2. Chemical Safety Assessment



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Chemical Safety Assessment No information available

16. OTHER INFORMATION

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

Revision Date:2020-10-06Revision 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