

S-OIL SEVEN BLUE #5 CF-4/SG 15W-40

Date of the previous version: 2019-06-19

Revision Date: 2019-06-19

Version 1

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

1.1. Product identifier

Product name	S-OIL SEVEN BLUE #5 CF-4/SG 15W-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 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 Hazard Statements

Not Classified

2.4. GHS Precautionary Statements

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



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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

3.2. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	>77.0
Mixed Performance Additive	Mixture	-	6.0 ~ 9.0
Viscosity Modifier Additive	Mixture	-	9.0 ~ 12.0
Polymer Esters of Methacrylic Acid and Mixed Mixed long chain Alcohols	Mixture	-	0.01 ~ 1.0
Polymerized Dimethyl Silicone Fluid	Mixture	-	0.01 ~ 1.0

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	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 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 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.



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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	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area.	

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/m ₃ , for 15 minutes; oil mist : 5mg/m ₃ , 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.



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Eye Protection	If splashes are	likely to occur, wear:. Safety glasses with side-shie	lds.
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.		
invironmental exposure contro	bls		

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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 Physical State @20°C Odor		Yellow To 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	>=210 °C >=410 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature	877 kg/m₃ Negligible >250 °C	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available	
Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	14.30 mm2/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



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Hazardous Reactions	None under norma	al processing.	
10.4. Conditions to Avoid			
Conditions to Avoid	Heat (temperature	s above flash point), sparks, ignition points, flames, statio	c electricity.
10.5. Incompatible Mater	<u>als</u>		
Materials to Avoid	Strong oxidizing a	gents.	
10.6. Hazardous Decompo	sition Product	<u>s</u>	
Hazardous Decomposition Product	None under norma	al use.	
11. TOXICOLOGICAL INFO	ORMATION		
11.1. Information on toxic	ological effect	< .	
Acute toxicity Local effects Prod	-	<u> </u>	
Acute toxicity Local enects i rou			
Skin contact	serious conseque	gh pressure injection of the products under the skin may nces even though no symptom or injury may be apparent kg (Rabbit, Dermal), Practically non-toxic.	
Eye contact	. Not classified.		
Inhalation	. Not classified. In respiratory system	halation of vapors in high concentration may cause irritat n.	ion of
Ingestion	. LD50 > 5000mg/	kg (Rat, Oral), Practically non-toxic.	
Acute toxicity - Component Infor	mation		
Sensitization			
Sensitization	Not classified as a	sensitizer.	
Specific effects			
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not	t classified carcinogenic. t classified as mutagenic. not present any known or suspected reproductive hazard	ds.
Repeated Dose Toxicity			
Subchronic toxicity	No information ava	ailable.	
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information ava	ailable.	
Other information			
Other adverse effects		e lesions (pimples) may develop following prolonged and t with contaminated clothing).	repeated
12. ECOLOGICAL INFORM	ATION		



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<u>12.1. Toxicity</u>			
LC 50 EC 50 IC 50	>1000 mg/l, 96 hrs, >1000 mg/l, 48 hrs, >1000 mg/l, 72 hrs,	Daphnia	
Effects on terrestrial organisms	No information avai	lable.	
12.2. Persistence and dec	<u>radability</u>		
General Information	No information avai	lable.	
12.3. Bioaccumulative po	tential		
Product Information	No information avai	lable.	
logPow	No information avai	lable	
Component Information	No information avai	lable.	
<u>12.4. Mobility in soil</u>			
Soil	Given its physical a mobility.	nd chemical characteristics, the product gener	ally shows low soil
Air	Loss by evaporation	n is limited.	
Water	Insoluble. The prod	uct spreads on the surface of the water.	
12.5. Results of PBT and	/PvB assessmei	<u>nt</u>	
PBT and vPvB assessment	No information avai	lable.	
12.6. Other adverse effec	<u>ts</u>		
General Information	No information avai	lable	
13. DISPOSAL CONSIDERATIONS			
13.1. Waste treatment me	thods		
Waste from Residues / Unused Products		sed into the environment. Dispose of in accord s on waste and hazardous waste. Dispose of ir	
Contaminated packaging	Empty containers s disposal.	hould be taken to an approved waste handling	site for recycling or

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



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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 Hazard Designation	* C:	Skin designation Carcinogen
M:	Mutagen	C. R:	Toxic to reproduction
Revision Date: Revision Note	2019-06-19 *** 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