

# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

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 20W-50
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 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.



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 2019-06-19

Revision Date: 2019-06-19

Version 1

**Environmental properties** 

Should not be released into the environment

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	81.0 ~ 91.0
Diesel engine oil additive	Mixture	-	4.5 ~ 10.5
Viscosity modified additive	Mixture	-	2.0 ~ 12.0
Polymer Esters of Methacrylic Acid and Mixed Mixed long chain Alcohols	Mixture	-	< 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.	
4.3. Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	Treat symptomatically.	



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 2019-06-19 Re

Revision Date: 2019-06-19

Version 1

## **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 con	ntainment 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	3

Advice on safe handling

Γ

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 Version GHS



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

	6-19 <b>Revision Date:</b> 2019-06-19	Version 1
	contact with skin, eyes and clothing.	
Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/be containers, tanks and transfer/receiving equipment.	ond
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel errisk of contact with the product. Regular cleaning of equipment, we clothing is recommended. Wash hands before breaks and immedia handling the product. Do not use abrasives, solvents or fuels. Do n with rags that have been contaminated with product. Do not put procontaminated rags into workwear pockets.	ork area and ately after ot dry hands
7.2. Conditions for safe stora	ge, including any incompatibilities	
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bu Keep container tightly closed. Keep preferably in the original conta Otherwise reproduce all indication of the regulation label on the ne Do not remove the hazard labels of the containers (even if they are Design the installations in order to avoid accidental emissions of pi seal breakage, for example) onto hot casings or electrical contacts frost, heat and sunlight. Protect from moisture.	iner. w container. e empty). roduct (due to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/PE	RSONAL PROTECTION	
8.1. Control parameters		
-		
Exposure limits	oil mist : 10mg/m <sub>3</sub> , for 15 minutes; oil mist : 5mg/m <sub>3</sub> , for 8 hours	
-	oil mist : 10mg/m <sub>3</sub> , for 15 minutes; oil mist : 5mg/m <sub>3</sub> , for 8 hours See section 16.	
Legend		
Exposure limits Legend <u>8.2. Exposure controls</u> Occupational Exposure Controls		
Legend 8.2. Exposure controls Occupational Exposure Controls		that there is
Legend 8.2. Exposure controls	See section 16. Apply technical measures to comply with the occupational exposur When working in confined spaces (tanks, containers, etc.), ensure	that there is
Legend 8.2. Exposure controls Occupational Exposure Controls Engineering Measures Personal Protective Equipment General Information	See section 16. Apply technical measures to comply with the occupational exposur When working in confined spaces (tanks, containers, etc.), ensure	that there is quipment. propriate
Legend 8.2. Exposure controls Occupational Exposure Controls Engineering Measures Personal Protective Equipment General Information If PI SI Respiratory protection V a (E	See section 16. Apply technical measures to comply with the occupational exposur When working in confined spaces (tanks, containers, etc.), ensure a supply of air suitable for breathing and wear the recommended en the product is used in mixtures, it is recommended that you contact the ap rotective equipment suppliers. These recommendations apply to the	that there is quipment. propriate product as t use r/particulate
Legend         8.2. Exposure controls         Occupational Exposure Controls         Engineering Measures         Personal Protective Equipment         General Information       If         Prist         Respiratory protection       Wag (E)	See section 16. Apply technical measures to comply with the occupational exposur When working in confined spaces (tanks, containers, etc.), ensure a supply of air suitable for breathing and wear the recommended e the product is used in mixtures, it is recommended that you contact the ap rotective equipment suppliers. These recommendations apply to the upplied. When workers are facing concentrations above the exposure limit they musi- propriate certified respirators. Respirator with combination filter for vapou SN 14387). The use of breathing apparatus must comply strictly with the m	that there is quipment. propriate product as t use r/particulate
Legend         8.2. Exposure controls         Occupational Exposure Controls         Engineering Measures         Personal Protective Equipment         General Information       If         Protection       Wage (E)         Export (E)       E)         Eye Protection       If	See section 16. Apply technical measures to comply with the occupational exposur When working in confined spaces (tanks, containers, etc.), ensure a supply of air suitable for breathing and wear the recommended e the product is used in mixtures, it is recommended that you contact the ap rotective equipment suppliers. These recommendations apply to the upplied. When workers are facing concentrations above the exposure limit they musi- propriate certified respirators. Respirator with combination filter for vapou EN 14387). The use of breathing apparatus must comply strictly with the m structions and the regulations governing their choices and uses.	that there is quipment. propriate product as t use r/particulate anufacturer's



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 2019-06-19

Revision Date: 2019-06-19

Version 1

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 Physical State @20°C Color		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 Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic	250 °C 482 °F 883 kg/m <sup>3</sup> Negligible 19.25 mm2/s 171.7 mm2/s	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available No information available @ 100 °C @ 40 °C	Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Explosive properties Oxidizing Properties Possibility of hazardous reactions	Not explosive Not applicable 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.



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 2019-06-19 Revision Date: 2019-06-19 Version 1 **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 . Not classified. High pressure injection of the products under the skin may have very Skin contact serious consequences even though no symptom or injury may be apparent. Eye contact . Not classified. . Not classified. Inhalation of vapors in high concentration may cause irritation of Inhalation respiratory system. . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and Ingestion diarrhea. Acute toxicity - Component Information No information available. **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

No information available

Effects on terrestrial organisms No information available.



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 201	9-06-19	Revision Date: 2019-06-19	Version 1
12.2. Persistence and dec	gradability		
General Information	No information avail	able.	
12.3. Bioaccumulative po	tential		
Product Information	No information avail	able.	
logPow	No information avail	able	
Component Information	No information avail	able.	
<u>12.4. Mobility in soil</u>			
Soil	Given its physical ar mobility.	nd chemical characteristics, the product generally sho	ows low soil
Air	Loss by evaporation	is limited.	
Water	Insoluble. The produ	ct spreads on the surface of the water.	
12.5. Results of PBT and	vPvB assessmen	<u>t</u>	
PBT and vPvB assessment	No information avail	able.	
12.6. Other adverse effec	<u>ts</u>		
General Information	No information avail	able	

# **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 IN	IFORMATION	
ADR/RID	Not regulated	
IMDG/IMO	Not regulated	
ICAO/IATA	Not regulated	
ADN	Not regulated	
15. REGULATORY	INFORMATION	



# S-OIL SEVEN BLUE #5 CF-4/SG 20W-50

Date of the previous version: 2019-06-19

Revision Date: 2019-06-19

Version 1

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

#### **International Inventories**

EINECS/ELINCS TSCA KECL <u>Legend</u> 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
<b>Revision Date:</b>	2019-06-19		

 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

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