

S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31

Revision Date: 2014-07-31

Version 1

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

1.1. Product identifier

Product nameS-OIL SEVEN BLUE1 10W40Pure substance/mixtureMixture

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 121-805, Korea

For further information, please contact:

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



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31Revision Date: 2014-07-31Version 1

2.4. Other hazards

Physical-Chemical PropertiesContaminated surfaces will be extremely slippery.Environmental propertiesShould 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	70.3 ~ 80.69
Mixed Performance Additive	Mixture	-	9.5 ~ 13.5
Viscosity Modifier Additive	Mixture	-	4.4 ~ 7.3
Additive 1	Mixture 122-39-4	-	5.3 ~ 8.2
Polymer, Esters of methacrylic acid and Mixed long chain alcohols	Mixture	-	0.1 ~ 0.5
Polymerized dimethyl silicone fluid	Mixture	-	0.01 ~ 0.2

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		

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.

Version GHS



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31	Revision Date: 2014-07-31	Version 1
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nause and diarrhea.	ea, vomiting
4.3. Indication of immediate med	ical attention and special treatment needed, if ne	ecessary
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 var such as carbon monoxide, carbon dioxide, various hydrocarbons, a and soot. These maybe highly dangerous if inhaled in confined spa high concentration.	aldehydes
5.3. Advice for fire-fighters		
5.3. Advice for fire-fighters Special protective equipment for fire- fighters	Wear self-contained breathing apparatus and protective suit.	

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 co	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.



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31

Revision Date: 2014-07-31

Version 1

Waste treatment

See section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Advice on safe handling Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Ground/bond Prevention of fire and explosion 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 Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. **Technical measures/Storage** Keep container tightly closed. Keep preferably in the original container. conditions 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
	Version GHS



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 201	4-07-31	Revision Date: 2014-07-31	Version 1
	(EN 14387). T	rtified respirators. Respirator with combination filter for va he use of breathing apparatus must comply strictly with th id the regulations governing their choices and uses.	
Eye Protection	If splashes are	e likely to occur, wear:. Safety glasses with side-shields.	
Skin and body protection	Wear suitable	protective clothing. Protective shoes or boots. Long sleev	ed clothing.
Hand Protection	instructions re supplier of the which the proc mixed with oth	proof gloves. Fluorinated rubber. Nitrile rubber. Please ob- garding permeability and breakthrough time which are pro- gloves. Also take into consideration the specific local con fluct is used, such as the danger of cuts, abrasion. If used her substances, and under conditions which differ from EN EC approved gloves.	vided by the ditions under in solution, or
Environmental exposure controls	<u>5</u>		
General Information	The product sl	nould 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	228 °C 442 °F 857.8 kg/m ³ Negligible Not applicable 14.30 mm ² /s	No information available No information available No information available @ 15 °C Insoluble No information available No information available @ 100 °C	Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Explosive properties Oxidizing Properties Possibility of hazardous reactions	94.98 mm ² /s Not explosive Not applicable Not applicable	@ 40 °C	

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

General Information

No information available.

10.2. Chemical stability



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 20)14-07-31	Revision Date: 2014-07-31	Version
Stability.	Stable under r	ecommended storage conditions.	
10.3. Possibility of hazar	dous reactio	<u>ns</u>	
Hazardous Reactions	None under no	ormal processing.	
10.4. Conditions to Avoid	<u>1</u>		
Conditions to Avoid	Heat (tempera	tures above flash point), sparks, ignition points, flar	nes, static electricity.
10.5. Incompatible Mate	<u>rials</u>		
Materials to Avoid	Strong oxidizir	ng agents.	
10.6. Hazardous Decompositi	ion Products		
Hazardous Decomposition Product	None under n	ormal use.	
11. TOXICOLOGICAL INF	ORMATION		
Acute toxicity Local effects Pro	duct Information		
Skin contact		d. High pressure injection of the products under the quences even though no symptom or injury may be	
		mg/kg (Rabbit, Dermal), Practically non-toxic.	
Eye contact	. Not classified	1.	
Inhalation	. Not classified respiratory sys	 Inhalation of vapors in high concentration may can stem. 	use irritation of
Ingestion	. LD50 > 5000	mg/kg (Rat, Oral), Practically non-toxic.	
Acute toxicity - Component Info	ormation		
Sensitization			
Sensitization	Not classified	as a sensitizer.	
Specific effects			
Carcinogenicity Mutagenicity Reproductive toxicity	This product is	s not classified carcinogenic. s not classified as mutagenic. oes not present any known or suspected reproducti	ive hazards.
Repeated Dose Toxicity			
Subchronic toxicity	No informatior	n available.	
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No informatior	available.	
Other information			

Other information

Other adverse effects

Characteristic skin lesions (pimples) may develop following prolonged and repeated



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31

Revision Date: 2014-07-31

Version 1

exposures (contact with contaminated clothing).

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.	

<u>12.4. Mobility in soil</u>

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

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 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



S-OIL SEVEN BLUE1 10W40

Date of the previous version: 2014-07-31

Revision Date: 2014-07-31

Version 1

 ADR/RID
 Not regulated

 IMDG/IMO
 Not regulated

Not regulated

ICAO/IATA Not regulated

ADN

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 Sectio	n 8		
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

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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