

S-OIL SEVEN RED #7 SN 20W-50

Date of the previous version: 2019-06-19

Revision Date: 2019-12-16

Version 2

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

1.1. Product identifier

Product name	S-OIL SEVEN RED #7 SN 20W-50
Pure substance/mixture	Mixture

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

Recommended Use

lubricant

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

Not classified as hazardous

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.



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Environmental properties

Should 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	78.0 ~ 87.0
Mixed performance additive	-	-	5.0 ~ 11.0
Viscosity modifier additive	-	-	5.0 ~ 11.0
Oil solution of acrylic polymer	-	-	< 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. Remove contaminated clothing and shoes. Wash skin with soap and water. Skin contact 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. 5. FIRE-FIGHTING MEASURES Version GHS



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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 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.
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 discharges. Ground containers, tanks and transfer/receiving equipment.	/bond	
Hygiene measures	risk of contact with the product. Regular cleaning of equipment, clothing is recommended. Wash hands before breaks and imme handling the product. Do not use abrasives, solvents or fuels. Do	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 stor	age, including any incompatibilities		
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a Keep container tightly closed. Keep preferably in the original cor Otherwise reproduce all indication of the regulation label on the Do not remove the hazard labels of the containers (even if they a Design the installations in order to avoid accidental emissions of seal breakage, for example) onto hot casings or electrical contact frost, heat and sunlight. Protect from moisture.	ntainer. new container. are empty). f product (due to	
Materials to Avoid	Strong oxidizing agents.		
7.3. Specific end uses			
8. EXPOSURE CONTROLS/PI			
6. EAPOSORE CONTROLS/PI	RSONAL 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.		
8.2. Exposure controls			
Occupational Exposure Controls			
Engineering Measures	Apply technical measures to comply with the occupational expose When working in confined spaces (tanks, containers, etc.), ensu a supply of air suitable for breathing and wear the recommended	re that there is	
Personal Protective Equipment			
Ŕ	the product is used in mixtures, it is recommended that you contact the rotective equipment suppliers. These recommendations apply to upplied.		
с р. а	/hen workers are facing concentrations above the exposure limit they m ppropriate certified respirators. Respirator with combination filter for vap EN 14387). The use of breathing apparatus must comply strictly with the istructions and the regulations governing their choices and uses.	our/particulate	
Eye Protection	splashes are likely to occur, wear:. Safety glasses with side-shields.		
Skin and body protection	/ear suitable protective clothing. Protective shoes or boots. Long sleeve	d clothing.	
i	ydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please obse structions regarding permeability and breakthrough time which are prov upplier of the gloves. Also take into consideration the specific local cond	ided by the	



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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 Odor		Yellow liquid Characteristic	
<u>Property</u> pH Boiling point/boiling range Flash point	<u>Values</u> 234 °C	<u>Remarks</u> Not applicable Not applicable	<u>Method</u> Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density	453.2 °F	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	872.4 kg/m ₃ Negligible	@ 15 °C Insoluble No information available No information available No information available	
Viscosity, kinematic	182.1 mm2/s 21.49 mm2/s	@ 40 °C @ 100 °C	
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.

10.5. Incompatible Materials



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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.

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)	

Sensitization

Sensitization	Not classified as a sensitizer.
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.
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

Acute aquatic toxicity - Component Information



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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	LL50 > 100 mg/l
hydrotreated heavy		(48h, Daphnia magna –	(96h, Oncorhynchus mykiss
paraffinic		OECD 202)	– OECD 203)

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	
<u>12.4. Mobility in soil</u>		
Soil	Given its physical and chemical characteristics, the product generally shows low soil mobility.	
Air	Loss by evaporation is limited.	
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 Version GHS



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 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

International Inventories

TSCA KECL Legend 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

Revision Note

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