

S-OIL SEVEN RED #5 SF/CF 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 RED #5 SF/CF 20W-50
Pure substance/mixture	Mixture

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

Recommended Use

Gasoline 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 Harzard 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

3.1. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	>70.0
Mixed Performance Additive	Mixture	-	7.5 ~ 12.0
Viscosity Modifier Additive	Mixture	-	10.0 ~ 16.0
Polymer Esters of Methacrylic Acid and Mixed Mixed long chain Alcohols	Mixture	-	0.01 ~ 1.00
Polymerized Dimethyl Silicone Fluid	Mixture	-	0.03 ~ 1.00

Additional information

Ingestion

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting

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 ar	nd 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.

and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary



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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 MEASU	JRES
6.1. Personal precautions, protec	ctive 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



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Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see Use only in well-ventilated areas. Do not breathe vapors or spray mis 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.	Ł
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel experise of contact with the product. Regular cleaning of equipment, work clothing is recommended. Wash hands before breaks and immediate handling the product. Do not use abrasives, solvents or fuels. Do not with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.	area and ly after dry hands
7.2. Conditions for safe stora	age, including any incompatibilities	
Technical measures/Storage condition	Keep away from food, drink and animal feedingstuffs. Keep in a bund Keep container tightly closed. Keep preferably in the original container Otherwise reproduce all indication of the regulation label on the new Do not remove the hazard labels of the containers (even if they are e Design the installations in order to avoid accidental emissions of proc seal breakage, for example) onto hot casings or electrical contacts. P frost, heat and sunlight. Protect from moisture.	er. container. mpty). duct (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/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 exposure I When working in confined spaces (tanks, containers, etc.), ensure the a supply of air suitable for breathing and wear the recommended equ	at there is
Personal Protective Equipment		
р	the product is used in mixtures, it is recommended that you contact the appro- rotective equipment suppliers. These recommendations apply to the pupplied.	
a (I	When workers are facing concentrations above the exposure limit they must us ppropriate certified respirators. Respirator with combination filter for vapour/p EN 14387). The use of breathing apparatus must comply strictly with the man istructions and the regulations governing their choices and uses.	articulate



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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 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 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	>=220 °C >=428 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density	884 kg/m ³	No information available No information available No information available No information available @ 15 °C	
Water solubility Solubility in other solvents logPow	Negligible	Insoluble No information available No information available	
Autoignition temperature Viscosity, kinematic	>260 °C 17.15 mm²/s	@ 100 °C	
Explosive properties	Not explosive		
Oxidizing Properties Possibility of hazardous reactions	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.



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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 LD50 > 5000mg/kg (Rabbit, Dermal), Practically non-toxic.
Eye contact	. Not classified.
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
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 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

LC 50	No information available
EC 50	No information available
IC 50	No information available



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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. 12.4. Mobility in soil Soil Soil Given its physical and chemical characteristics, the product generally shows low smobility. 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 No information available. PBT and vPvB assessment No information available. 13. LispOSAL CONSIDERTIONS Information available. 13.1. Waste treatment methods 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 the European Directives on waste and hazardous waste. Dispose of in accordance with regulations. Contaminated packaging Empty containers should be taken to an approved waste handling site for recyclin disposal. EWC Waste Disposal No. The following Waste Codes are only suggestions : 13 01 10. According to the European Side should be assigned by the user based on		Date of the previous version: 201	9-06-19	Revision Date: 2019-06-19	Version
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		EWC Waste Disposal No.	Waste Catalogue codes should be	e, Waste Codes are not product specific, but applie	cation specific. Waste
14. TRANSPORT INFORMATION		14. TRANSPORT INFORM	ATION		

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



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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	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	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