

# S-OIL SEVEN RED #7 SN 10W-40

Date of the previous version: 2019-11-04

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 10W-40
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 E-mail Address

dolyoo@s-oil-total.com

HSSEQ

### 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
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 %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	74.0 ~ 83.0
Mixed performance additive	Mixture	-	5.0 ~ 11.0
Additive 1	Mixture	-	< 1.0
Viscosity modifier additive	Mixture	-	10.0 ~ 16.0
Oil solution of acrylic polymer	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 IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR **General advice** OR EMERGENCY MEDICAL CARE. Immeadiately flush with plenty of water. After initial flushing, remove any Eye contact contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital. Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Ingestion Clean mouth with water. 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.



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Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	g
4.3. Indication of immediate med	lical attention and special treatment needed, if necessary	<u>/</u>
Notes to physician	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
5.1. Extinguishing media		
Suitable extinguishing media	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.	
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. Combustion products include sulphur oxides (SO <sub>2</sub> and SC and Hydrogen sulphide H <sub>2</sub> S, Mercaptans, Nitrogen oxides (NO <sub>x</sub> ), Phosphorou oxides.	) <sub>3</sub> )
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, protect	tive 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	ł.

### 6.3. Methods and material for containment and cleaning up

Methods for containment	Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.
Methods for cleaning up	Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

### 6.4. Reference to other sections



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Personal Protective Equipment	See Section 8 for more detail.	
Waste treatment	See section 13.	
7. HANDLING AND STORAGE	<u> </u>	
7.1. Precautions for safe har	ndling	
Advice on safe handling	For personal protection see section 8. Use only in well-ventilated areas. I breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.	Do not
Prevention of fire and explosion	Take precautionary measures against static discharges.	
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel exposed risk of contact with the product. Regular cleaning of equipment, work are clothing is recommended. Wash hands before breaks and immediately at handling the product. Do not use abrasives, solvents or fuels. Do not dry with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.	a and fter
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 bunded a Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new cont 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 seal breakage, for example) onto hot casings or electrical contacts. Prote frost, heat and sunlight. Protect from moisture.	tainer. y). (due to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/PE	ERSONAL PROTECTION	
8.1. Control parameters		
Exposure limits	Mineral oil mist : USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, S mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).	TEL 10
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 th a supply of air suitable for breathing and wear the recommended equipm	nere is
Personal Protective Equipment		
e ti	Protective engineering solutions should be implemented and in use before personal pr quipment is considered. The personal protective equipment (PPE) recommendations he product ITSELF. In case of mixtures or formulations, it is suggested that you cor elevant PPE suppliers.	apply to



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Respiratory protection	exposure limit t for vapour/part The use of bre	ormal use conditions. When workers are facing c hey must use appropriate certified respirators. Respira iculate (EN 14387) : Type A/P1. Warning ! filters hav athing apparatus must comply strictly with the manuf governing their choices and uses.	ator with combination filter /e a limited use duration.
Eye Protection	If splashes are	e likely to occur, wear:. Safety glasses with side-shie	elds. EN 166
Skin and body protection	Wear suitable 4/6	protective clothing. Protective shoes or boots. Long	g sleeved clothing. Type
Hand Protection	contact with th EN 374 standa at least. These material of the handled, the a the instruction supplier of the	proof gloves: Fluorinated rubber, Nitrile rubber. In ca e product, it is recommended to wear gloves compl ards, protecting at least for 480 minutes and having e values are indicative only. The level of protection i glove, its technical characteristics, its resistance to ppropriateness of its use and its replacement freque s regarding permeability and breakthrough time whi gloves. Also take into consideration the specific loc luct is used, such as the danger of cuts, abrasion, a	ying with EN 420 and a thickness of 0.38 mm s provided by the the chemicals to be ency. Please observe ich are provided by the cal conditions under

### 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 Flash point	<u>Values</u> > <b>210 °C</b> > 410 °F	<u>Remarks</u> Not applicable Not applicable	<u>Method</u> 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	871.3 kg/m <sup>3</sup> Negligible	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available	Cleveland Open Cup (COC)
Autoignition temperature Viscosity, kinematic	Not applicable 94.73 mm²/s 14.10 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



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General Information	None under normal pro	ocessing.	
10.2. Chemical stability			
Stability.	Stable under recomme	ended storage conditions.	
10.3. Possibility of hazard	ous reactions		
Hazardous Reactions	No dangerous reaction	known under conditions of normal use.	
10.4. Conditions to Avoid			
Conditions to Avoid	Keep away from open f sparks.	lames, hot surfaces and sources of ignition. Keep away	from heat and
10.5. Incompatible Materi	als		
Materials to Avoid	Strong oxidizing agent	S.	
10.6. Hazardous Decompositio	n Products		
Hazardous Decomposition Product	carbon monoxide, c Combustion products	n and thermolysis may produce gases of varying to carbon dioxide, various hydrocarbons, aldehydes include sulphur oxides (SO <sub>2</sub> and SO <sub>3</sub> ) and Hydrogen oxides (NO <sub>x</sub> ), Phosphorous oxides.	s and soot.

#### **11. TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Information on likely routes of exposure		
Skin contact	. Not classified based on available information.	
Eye contact	. Not classified based on available information.	
Inhalation	. Not classified based on available information. Inhalation of vapors in high concentration may cause irritation of respiratory system.	
Ingestion	. Not classified based on available information. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 > 5000mg/kg bw (Rat - OECD 401)	LD50 > 5000 mg/kg bw (Rabbit - OECD 402)	LC50 > 5 mg/l (aerosol) (4h, rat – OECD 403)

#### Skin corrosion/Irritations

Chemical Name	Skin corrosion/Irritations	
Mixed performance additive	Classification: Slightly irritating. Rabbit. Remarks: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Causes mild skin irritation.	

### Sensitization



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Date of the previous version: 2019-11-04 Revision Date: 2019-12-16 Version 2 Sensitization Not classified as a sensitizer. **Specific effects** This product is not classified carcinogenic. Carcinogenicity Mutagenicity This product is not classified as mutagenic. **Reproductive toxicity** This product does not present any known or suspected reproductive hazards. **Repeated Dose Toxicity** No information available. Subchronic toxicity 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

1) Acute toxicity – Component information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish
Distillates (petroleum), hydrotreated heavy paraffinic	EL50 > 100mg/L (48hr, Pseudokirchnerella subcapitata - OECD 201)	EL50 > 10000mg/L (48hr, Daphnia magna - OECD 202)	LL50 > 100mg/L (96hr, Oncorhynchus mykiss - OECD 203)

#### 2) Chronic toxicity – Component information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish
Distillates (petroleum),		NOEL 10 mg/L	NOEL > 1000 mg/L
hydrotreated heavy		(21d, Daphnia magna –	(14/21d, Oncorhynchus
paraffinic		QSAR Petrotox)	mykiss – QSAR Petrotox)
Effects on terrestrial ergenien	• No information ovailable		

Effects on terrestrial organisms No information available.

#### 12.2. Persistence and degradability

General Information No info

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

Air

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

Loss by evaporation is limited.



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Water	Insoluble. The product spreads	on the surface of the water.	
12.5. Results of PBT and	PvB assessment		
PBT and vPvB assessment	No information available.		
12.6. Other adverse effec	<u>s</u>		
General Information	No information available		
13. DISPOSAL CONSIDER	TIONS		
13.1. Waste treatment me	thods		
Waste from Residues / Unused Products		environment. Dispose of in accordance wit nd hazardous waste. Dispose of in accord	
Contaminated packaging	Empty containers should be take disposal.	en to an approved waste handling site for r	ecycling or
EWC Waste Disposal No.	Waste Catalogue, Waste Codes	only suggestions: 13 01 10. According to t are not product specific, but application s e user based on the application for which t	pecific. Waste
14. TRANSPORT INFORM	TION		
ADR/RID	Not regulated		
IMDG/IMO	Not regulated		
ICAO/IATA	Not regulated		
ADN	Not regulated		
15. REGULATORY INFORM	IATION		

#### **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

No information available Chemical Safety Assessment



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16. OTHER INFORMATION				
Abbreviations,	acronyms			
Legend Section	8			
+	Sensitizer	*	Skin designation	
**	Hazard Designation	C:	Carcinogen	
M:	Mutagen	R:	Toxic to reproduction	
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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 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