

# S-OIL SEVEN RED #9 LPG 10W-30

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 #9 LPG 10W-30
Pure substance/mixture	Mixture

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

Recommended Use

Gasoline & 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	HSEQ
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
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### 2.3. GHS Precautionary Statements

Prevention	Not Classified
Response	Not Classified
Storage	Not Classified
Disposal	Not Classified



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### 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	88.0 ~ 91.75
Mixed Performance Additive	Mixture, 84605-29-8, 122-39-4	-	8.0 ~ 10.5
Viscosity Modifier Additive	Mixture	-	0.15 ~ 1.0
Additive 1	<u>Mixture,</u> 122-39-4	-	0.1 ~ 0.5

#### 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.



# **MATERIAL SAFETY DATA SHEET**

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Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, naus 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, and soot. These maybe highly dangerous if inhaled in confined spa high concentration.	aldehydes
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 contam extinguishing water must be disposed of in accordance with local r	
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 surface extremely slippery. Use personal protective equipment. Ensure adequate ventilation. F 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 containment and cleaning up

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.



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#### 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. Take precautionary measures against static discharges. Ground/bond Prevention of fire and explosion containers, tanks and transfer/receiving equipment. Ensure the application of strict rules of hygiene by the personnel exposed to the Hygiene measures 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 <sub>3</sub> , for 15 minutes; oil mist : 5mg/m <sub>3</sub> , 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 appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's
	Version OUG



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	instructions ar	nd the regulations governing their choices and uses.	
Eye Protection	If splashes are	e likely to occur, wear:. Safety glasses with side-shiel	lds.
Skin and body protection	Wear suitable	protective clothing. Protective shoes or boots. Long	sleeved clothing.
Hand Protection	instructions re supplier of the which the proo mixed with oth	proof gloves. Fluorinated rubber. Nitrile rubber. Pleas egarding permeability and breakthrough time which an e gloves. Also take into consideration the specific loca duct is used, such as the danger of cuts, abrasion. If her substances, and under conditions which differ from e EC approved gloves.	re provided by the al conditions under used in solution, or
Environmental exposure control	<u>s</u>		
General Information	The product s	hould not be allowed to enter drains, water courses of	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	Values	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point	<b>246 °C</b> 475 °F		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	855 kg/m₃ Negligible	No information available No information available No information available @ 15 °C Insoluble No information available No information available	
Autoignition temperature Viscosity, kinematic	Not applicable 10.20 mm <sup>2</sup> /s	@ 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



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Date of the previous version: 2019-06-19 Revision Date: 2019-06-19 Version 1 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 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	LD50 Oral	LD50 Dermal	LC50 Inhalation
Severely hydrogenated heavy paraffinic distillate	LD50 > 5,000mg/kg (Rat)	LD50 > 5,000mg/kg (Rabbit)	
Mixed Performance Additive	LD50 > 10,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	
Viscosity Modifier Additive	LD50 > 5,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	
Additive 1	LD50 > 10,000mg/kg (Rat)	LD50 > 2,000mg/kg (Rabbit)	

#### Eye contact

Hye contact Mixed Performance Additive	Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar materials. Vapors formed from heating may cause eye irritation.
Additive 1	Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from similar materials.
Sensitization	
Sensitization	Not classified as a sensitizer.
Specific effects	
Carcinogenicity	This product is not classified carcinogenic.



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Mutagenicity Reproductive toxicity	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 re exposures (contact with contaminated clothing).	peated

## **12. ECOLOGICAL INFORMATION**

### <u>12.1. Toxicity</u>

# Acute aquatic toxicity - Product Information No information available.

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Mixed Performance Additive		EC50 10-100mg/L	LC50 10-100 mg/L	
Viscosity Modifier Additive			LC50 >1,000mg/L	EC50 >1,000mg/L
Additive 1	EC50 10-100mg/L	EC50 1-10mg/L		

### **Chronic aquatic toxicity - Product Information**

No information available.

#### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Mixed Performance Additive		EC50 1-10mg/L		
Additive 1		EC50 10-100mg/L		

#### Effects on terrestrial organisms

No information available.

## 12.2. Persistence and degradability

Chemical Name	Biodegradation
Mixed Performance Additive	Min 25% (OECD 301)
Viscosity Modifier Additive	Min 25% (OECD 301)
Additive 1	Min 25% (OECD 301, 302)



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General Information	No information available.	
12.3. Bioaccumulative poter	tial	
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 mobility.	shows low soil
Air	Loss by evaporation is limited.	
Water	Insoluble. The product spreads on the surface of the water.	
12.5. Results of PBT and vPv	B assessment	
PBT and vPvB assessment	No information available.	
12.6. Other adverse effects		
General Information	No information available	
13. DISPOSAL CONSIDERAT	ONS	
13.1. Waste treatment methods		
Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance European Directives on waste and hazardous waste. Dispose of in ac local regulations.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site disposal.	for recycling or
EWC Waste Disposal No.	The following Waste Codes are only suggestions: 13 01 10. According Waste Catalogue, Waste Codes are not product specific, but applicati Waste codes should be assigned by the user based on the application for wh was used.	on specific.
14. TRANSPORT INFORMAT	ON	
ADR/RID	Not regulated	
IMDG/IMO	Not regulated	
ICAO/IATA	Not regulated	
ADN	Not regulated	
15. REGULATORY INFORMA	ΓΙΟΝ	

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



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#### <u>mixture</u>

**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

Revision Date: Revision Note	2019-06-19 *** Indicates updated section.		
M:	Mutagen	R:	Toxic to reproduction
**	Hazard Designation	C:	Carcinogen
Legend Section 8 +	Sensitizer	*	Skin designation

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