

## S-OIL SEVEN RED1 SN PLUS 5W30

Date of the previous version: 2018-08-13

Revision Date: 2018-08-13

Version 1

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

#### **1.1. Product identifier**

Product name S-OIL SEVEN RED1 SN PLUS 5W30
Pure substance/mixture Mixture

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

Recommended Use

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:

 Contact Point
 HSSEQ

 E-mail Address
 dolyoo@s-oil-total.com

#### **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 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**

#### 3.1. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	40.0 ~ 45.0
Amines, polyethylenepoly-,reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs	147880-09-9	-	1.0 ~ 2.5
bis(nonylphenyl)amine	36878-20-3	-	1.0 ~ 2.5

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.
<b>4.2. Most important symptoms a</b>	nd effects, both acute and delayed
<b>4.2. Most important symptoms a</b> Eye contact	nd effects, both acute and delayed Not classified.
Eye contact	Not classified. Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be

#### 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	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.	
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 protect Use only in well-ventilated areas. Do not breathe vapors or sp contact with skin, eyes and clothing.	
Prevention of fire and explosion	Take precautionary measures against static discharges. Grou containers, tanks and transfer/receiving equipment.	ind/bond
Hygiene measures	Ensure the application of strict rules of hygiene by the persor risk of contact with the product. Regular cleaning of equipment clothing is recommended. Wash hands before breaks and im handling the product. Do not use abrasives, solvents or fuels with rags that have been contaminated with product. Do not p contaminated rags into workwear pockets.	nt, work area and mediately after Do not dry hands
7.2. Conditions for safe storage,	including any incompatibilities	
Technical measures/Storage	Keep away from food, drink and animal feedingstuffs. Keep in	a bunded area.

conditions	Keep container tightly closed. Keep preferably in the original container. 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	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).	
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 instructions and the regulations governing their choices and uses.	
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.	



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Skin and body protection	Wear suitable	protective clothing. Protective shoes or boots. Long	sleeved clothing.
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.		re provided by the al conditions under used in solution, or
Environmental exposure controls	<u>i</u>		
General Information	The product sh	nould 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 Odor		Yellow To amber liquid Characteristic	
<u>Property</u> pH Boiling point/boiling range Flash point	<u>Values</u> 244 °C 471 °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 Autoignition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	850 kg/m <sup>3</sup> Negligible Not applicable 58.84 mm <sup>2</sup> /s Not explosive Not applicable Not applicable	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available @ 40 °C	

#### 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** 

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to Avoid



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Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.		Keep away from heat
<u>10.5. Incompatible Mater</u>	rials_		
Materials to Avoid	Strong oxidizing a	gents.	
<u>10.6. Hazardous Decomp</u>	osition Product	<u>s</u>	
Hazardous Decomposition Product	carbon monoxide, Combustion produ	ustion and thermolysis may produce gases of vary carbon dioxide, various hydrocarbons, aldehydes ucts include sulphur oxides (SO2 and SO3) and H Nitrogen oxides (NOx), Phosphorous oxides, Zin	s and soot. lydrogen sulphide

#### **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 > 5000mg/kg bw (Rat - OECD 420)	LD50 > 5000mg/kg bw (rabbit - OECD 402)	
bis(nonylphenyl)amine	LD50 > 5000mg/kg (Rat - OECD 401)	LD50 > 2000mg/kg (Rat - OECD 402)	

#### **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.	



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#### 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 - 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
bis(nonylphenyl)amine		(Daphnia magna -	LC50 (96hr) > 100mg/l (Brachyanio rerio - OECD 203)	

### Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information 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

logPow

No information available. No information available

#### **Component Information**

Chemical Name	log Pow
Severely hydrogenated heavy paraffinic distillate	-
bis(nonylphenyl)amine	7.7

#### 12.4. Mobility in soil

Soil

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

- Air Loss by evaporation is limited.
- Water

The product is insoluble and floats on water.

#### **12.5. Results of PBT and vPvB assessment**



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PBT and vPvB assessment	BT and vPvB assessment No information available.		
<u>12.6. Other adverse effects</u>			
General Information	No information available		
13. DISPOSAL CONSIDERATIONS			
13.1. Waste treatment meth	<u>ods</u>		
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.		
Other information	Refer to section 8 for safety and protective measures for disposal personnel.		
14. TRANSPORT INFORMATION			
ADR/RID	Not regulated		
IMDG/IMO	Not regulated		
ICAO/IATA	Not regulated		
ADN	Not regulated		

#### **15. REGULATORY INFORMATION**

# <u>15.1. Safety, health and environmental regulations/legislation specific for the substance or 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**



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Legend Section 8 + ** M:	Sensitizer Hazard Designation Mutagen	* C: R:	Skin designation Carcinogen Toxic to reproduction
Revision Date:	2018-0	8-13	
Revision Note	*** Indi	cates 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