

# S-OIL SEVEN GOLD #9 ECO C3 5W-30

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Version 1

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

#### 1.1. Product identifier

Product name	S-OIL SEVEN GOLD #9 ECO C3 5W-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	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 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 %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	> 75.0
Mixed Performance Additive	Mixture	-	10.0 ~ 15.0
Viscosity Modifier Additive	Mixture	-	5.0 ~ 10.0
Polymer, Esters of methacrylic acid and Mixed long chain alcohols	Mixture	-	0.03 ~ 1.0
Polymerized dimethyl silicone fluid	Mixture	-	0.03 ~ 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.	
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	

Skill contact	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.



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

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 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 containment and cleaning up		
Methods for containment	Dam up. Contain spillage, and then collect with non-combustible absorbent	

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.



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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.
Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.
Hygiene measures	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 storage, including any incompatibilities	

Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. 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	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 instructions and the regulations governing their choices and uses.



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Eye Protection	If splashes are	likely to occur, wear:. Safety glasses with side-shie	lds.
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 t supplier of the gloves. Also take into consideration the specific local conditions un which the product is used, such as the danger of cuts, abrasion. If used in solutior mixed with other substances, and under conditions which differ from EN 374, cont supplier of the EC approved gloves.		
Environmental exposure contro	ols_		

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**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> 228 °C 443 °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	854 kg/m <sup>3</sup> 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 12.36 mm <sup>2</sup> /s 74.01 mm <sup>2</sup> /s	@ 100 °C @ 40 °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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Hazardous Reactions	None under normal processing.			
10.4. Conditions to Avoid				
Conditions to Avoid	Heat (temperatures abo	ve flash point), sparks, ignition points, flam	es, 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	<ul> <li>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.</li> <li>LD50 &gt; 2000mg/kg (Rabbit, Dermal), Practically non-toxic.</li> </ul>
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 Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Severely hydrogenated heavy paraffinic distillate	LD50 > 5000mg/kg bw (Rat - OECD 401)	LD50 > 5000 mg/kg bw (Rabbit - OECD 402)	
Mixed Performance Additive	LD50 > 5000 mg/kg (Rat)	LD50 > 2000mg/kg (Rabbit)	LC50 > 1.9mg/L (Rat)
Viscosity Modifier Additive	LD50 > 5000 mg/kg (Rat)	LD50 > 5000mg/kg (Rabbit)	LC50 > 5000mg/m <sup>3</sup> (Rat)

#### 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

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish
		EL50 > 10000mg/L	LL50 > 100mg/L
Severely hydrogenated heavy paraffinic distillate	EL50 > 100mg/L (48hr, Pseudokirchnerella subcapitata - OECD 201)	(48hr, Daphnia magna -	(96hr, Oncorhynchus
		OECD 202)	mykiss - OECD 203)
		NOEL 10mg/L	NOEL > 1000mg/L
		(21days, Daphnia magna -	(14/21days, Oncorhynchus
		QSAR Petrotox)	mykiss - QSAR Petrotox)

#### 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

No information available.

#### 12.4. Mobility in soil

Water

SoilGiven its physical and chemical characteristics, the product generally shows low soil<br/>mobility.AirLoss by evaporation is limited.

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 / UnusedShould not be released into the environment. Dispose of in accordance with the<br/>European Directives on waste and hazardous waste. Dispose of in accordance with local<br/>regulations.



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Contaminated packaging	Empty containe disposal.	ers should be taken to an approved waste handling	site for recycling or
EWC Waste Disposal No.	The following Waste Codes are only suggestions: 13 01 10. According to the Europear Waste Catalogue, Waste Codes are not product specific, but application specific. Wast codes should be assigned by the user based on the application for which the product w used.		ication specific. Waste
14. TRANSPORT INFOR	MATION		
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**

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



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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