

S-OIL SEVEN GOLD #9 A3/B4 5W-40

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Revision Date: 2023-03-16

Version 2

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

1.1. Product identifier

Product name	S-OIL SEVEN GOLD #9 A3/B4 5W-40
Pure substance/mixture	Mixture

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

Recommended Use

Diesel engine oil.

1.3. Details of the supplier of the safety data sheet

Manufacturer S-OIL CORPORATION 192, Baekbeom-ro, Mapo-gu, Seoul 04196, Korea

For further information, please contact:

Contact PointHSSEQE-mail Addressdolyoo@stlc.co.kr

<u>1.4. Emergency telephone number</u>

Korea

+82 2 527 6052

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
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Signal Words Not Classified

2.3. hazards Statement

Not classified

2.4. 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 %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	70.0 ~ 77.0
Additive 1	Mixture	-	11.0 ~ 13.0
Additive 2	Mixture	-	10.0 ~ 17.0
Additive 3	Mixture	-	< 1.0
Additive 4	Mixture	-	< 1.0
Oil solution of acrylic polymer	Mixture	-	< 1.0

Additional information

Inhalation

Ingestion

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.	

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

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

Other information

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO 2). 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.
5.3. Advice for fire-fighters	
Special protective equipment for fire- fighters	Wear self-contained breathing apparatus and protective suit.

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 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



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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 explosio	n 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 feeding stuffs. 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 CONTROL	S/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 Contro	ls	
Engineering Measures	Apply technical measures to comply with the occupational exposure limits. When working 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	None under normal use conditions. 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 Version GHS	



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	comply strictly t	with the manufacturer's instructions and the regulatior es.	ns governing their
Eye Protection	If splashes are	likely to occur, wear:. Safety glasses with side-shields	S.
Skin and body protection	Wear suitable p	protective clothing. Protective shoes or boots. Long sl	eeved clothing.
Hand Protection	instructions reg supplier of the g which the produ mixed with othe	roof gloves. Fluorinated rubber. Nitrile rubber. Please garding permeability and breakthrough time which are gloves. Also take into consideration the specific local uct is used, such as the danger of cuts, abrasion. If us er substances, and under conditions which differ from EC approved gloves.	provided by the conditions under sed in solution, or
Environmental exposure controls	<u>5</u>		

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 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 Flash point Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density	232 °C	No information available No information available No information available No information available	Cleveland Open Cup (COC)
Density Water solubility Solubility in other solvents logPow Autoignition temperature	854 kg/m ³	@ 15 °C Insoluble No information available No information available No information available	
Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	91.69 mm ² /s 15.09 mm ² /s Not explosive Not applicable Not applicable	@ 40 °C @ 100 °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



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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

<u>11.1. Information on toxicological effects</u>

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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity- Component Information

Chemical name	Oral	Dermal	Inhalation	
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 > 5000 mg/kg bw (rat – OECD 420)	LD50 > 5000 mg/kg bw (rabbit – OECD 402)	LC50 > 5 mg/l (4h, aerosol) (rat – OECD 403)	
Oil solution of acrylic polymer	LD50 > 2000 mg/kg (rat)	LD50 > 2000 mg/kg (rabbit)		
Skin corrosion/irritation	Not classified.			
Serious eye damage/eye irritation	Not classified.			
Sensitization				
Sensitization	Not classified as sensitization.			
Specific effects				
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not classifi	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.			



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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

Not classified.

Acute aquatic toxicity - Component Information

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

Chronic aquatic toxicity - Component Information

Chemical name	Toxicity algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Distillates (petroleum),		NOEL 10 mg/l	LL50 > 100 mg/l
hydrotreated heavy		(48h, Daphnia magna –	(96h, Oncorhynchus mykiss
paraffinic		OECD 202)	– OECD 203)

Effects on terrestrial organisms

No information available.

General Information

No information available.

12.2. Persistence and degradability

General Information

Persistence No information available.

degradability No information available.

12.3. Bioaccumulative potential

Product Information	No information available.
logPow	No information available.

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	Insoluble. The product spreads on the surface of the water.



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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

14. TRANSPORT INFORM	TION
Other information	Refer to section 8 for safety and protective measures for disposal personnel.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste from Residues / Unused Products	Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION		
Not regulated		

15. REGULATORY INFORMATION

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

International Inventories

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 No information available

Abbreviations, acronyms

Legend Section 8 + Sensitizer

Skin designation



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** M:	Hazard Designation Mutagen	C: R:	Carcinogen Toxic to reproduction	
Revision Date: Revision Note	2023-03-16 *** 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 the user 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