

S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

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

1.1. Product identifier

Product name S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

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

Supplier S-OIL CORPORATION

192, Baekbeom-ro, Mapo-gu,

Seoul 04196, Korea

For further information, please contact:

Contact Point HSSEC

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

1.4. Emergency telephone number

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
Signal Words Not Classified

2.3. GHS Hazards Statement

Not Classified

2.4. GHS Precautionary Statements

PreventionNot ClassifiedResponseNot ClassifiedStorageNot ClassifiedDisposalNot Classified

2.5. Other hazards



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

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	77.0 ~ 84.0
Additive 1	Trade secret	-	7.0 ~ 13.0
Additive 2	Trade secret	-	5.0 ~ 10.0
Oil solution of acrylic polymer	Trade secret	-	< 1.0
Additive 3	Trade secret	-	< 0.1
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,zinc salts	68649-42-3	-	0.6 ~ 1.2

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.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

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



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

Notes to physician 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.

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 mater

or water courses. Local authorities should be advised if significant spillages cannot

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

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8.



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid

contact with skin, eyes and clothing.

Prevention of fire and explosionTake 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 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.

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.



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Revision Date: 2020-09-11 Version 1.0 Date of the previous version: 2020-09-11

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields.

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.

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 Orange Physical State @20°C liquid

Odor Characteristic

Method Property Values Remarks Нα

Not applicable Boiling point/boiling range Not applicable

Flash point 232 °C Cleveland Open Cup (COC)

Evaporation rate No information available Flammability Limits in Air No information available Vapor Pressure No information available

Vapor density No information available

Density 860.0 kg/m³ @ 15 °C

Insoluble Water solubility

No information available Solubility in other solvents **logPow** No information available

Autoignition temperature No information available @ 40 °C

Viscosity, kinematic 68.08 mm²/s **Explosive properties** Not explosive **Oxidizing Properties** Not applicable

Possibility of hazardous reactions 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

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

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. 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)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,zinc salts	LD50 2900 mg/kg (rat)	LD50 > 2000 mg/kg (rabbit)	-

Sensitization

Skin Sensitization Not classified based on available data. Contains sensitizer(s). May produce an allergic

reaction. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which

confirms that at the concentration used, classification is

Specific effects

Carcinogenicity This product is not classified carcinogenic.

During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly

removed by washing with soap and water.

Mutagenicity This product is not classified as mutagenic.

Reproductive toxicityThis product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

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.

Aquatic toxicity - Product Information

No information available.

Aquatic toxicity - Component Information

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)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,zinc salts	EC50 (72h) 2.2 mg/l	EC50 (48h) 1.2 mg/l (Daphnia magna)	LC50 (96h) 4.5 mg/l

Chronic aquatic toxicity - Component Information

Chemical name	Toxicity algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Distillates (petroleum), hydrotreated heavy paraffinic		NOEL 10 mg/l (21d, Daphnia magna – QSAR Petrotox)	NOEL > 1000 mg/l (14/28d, Oncorhynchus mykiss – QSAR Petrotox)
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,zinc salts	NOEC 1.0 mg/l	NOEC (21d) 0.4 mg/l (Daphnia magna)	NOEC (28d) 1.8 mg/l

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

<u>Product Information</u> No information available.



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

<u>logPow</u>

Chemical name	log Pow
Phosphorodithioic acid,	
O,O-di-C1-14-alkyl	0.56
esters,zinc salts	

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.

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 / 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.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EWC Waste Disposal No. The following Waste Codes are only suggestions: 13 01 10. According to the European

Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was

used.

14. TRANSPORT INFORMATION

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



S-OIL SEVEN BLUE #7 CI-4/SL 5W-30

Date of the previous version: 2020-09-11 Revision Date: 2020-09-11 Version 1.0

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

** Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

Revision Date: 2020-09-11

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