

# S-OIL SEVEN BLUE #5 CD/SF 20W-50

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 BLUE #5 CD/SF 20W-50

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:

## 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 Harzad Statements

Not Classified

# 2.4. GHS Precautionary Statements

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

## 2.5. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.



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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	82.0 ~ 88.0
Zinc Aalkyl Dithiophosphate Copolymer Mixed Performance Additive	Mixture	-	3.0 ~ 6.0
Calcium Long Chain Alkaryl Sulphonate Copolymer Mixed Performance Additive	Mixture	-	1.0 ~ 3.0
ACRYLIC COPOLYMER FLUID	Mixture	-	0.1 ~ 0.5
Polymerized Dimethyl Silicone Fluid	Mixture	-	0.01 ~ 0.02
Ethylen Propylene Copolymer Mixed Performance Additive	Mixture	-	8.0 ~ 11.0

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

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



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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 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

## 7.1. Precautions for safe handling



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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.

**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.



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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

No information available

@ 100 °C

@ 40 °C

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** Yellow To amber

Physical State @20°C liquid

**Odor** Characteristic

PropertyValuesRemarksMethodpHNot applicable

Boiling point/boiling range Not applicable

Flash point 226 °C Cleveland Open Cup (COC) 439 °F Cleveland Open Cup (COC)

Evaporation rateNo information availableFlammability Limits in AirNo information availableVapor PressureNo information availableVapor densityNo information available

Density880 kg/m³@ 15 °CWater solubilityNegligibleInsolubleSolubility in other solventsNo information available

Solubility in other solvents logPow

Autoignition temperature >250 °C Viscosity, kinematic 7.900 mm²/s

55.45 mm²/s

Explosive properties

Not explosive

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

Hazardous Reactions None under normal processing.

## 10.4. Conditions to Avoid



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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.

. LD50 > 2000mg/kg (Rabbit, Dermal), Practically non-toxic.

Eye contact . Not classified.

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

respiratory system.

 $\label{eq:loss_equation} \textbf{Ingestion} \qquad \qquad \text{. LD50} > 5000 \text{mg/kg (Rat, Oral), Practically non-toxic.}$ 

#### **Acute toxicity - Component Information**

**Sensitization** 

**Sensitization** Not classified as a sensitizer.

Specific effects

CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.

**Reproductive toxicity**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 repeated

exposures (contact with contaminated clothing).

## 12. ECOLOGICAL INFORMATION

#### **12.1. Toxicity**

LC 50 No information available.



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EC 50 No information available.

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 InformationNo information available.logPowNo information availableComponent InformationNo 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.

# 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. 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.

**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



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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

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**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