

# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

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

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

Product nameS-OIL MARINE TP 1230Pure substance/mixtureMixture

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

Recommended Use

Marine Oil.

#### **1.3. Details of the supplier of the safety data sheet**

Manufacturer

S-OIL TOTAL LUBRICANTS CO., LTD 3F Ace Tower, 92 Tongil-ro, Jung-gu Seoul 100-712 Korea

For further information, please contact:

Contact Point E-mail Address

#### **1.4. Emergency telephone number**

Korea

+82 2 6320 2000

# 2. HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

Classification Not classified.

Symbol(s) Not classified.

#### 2.2. Label elements

Signal word

Not classified.

#### 2.3. hazards Statement

No information available.

#### **2.4. Precautionary Statements**

No information available.

#### 2.5. Other hazards

Physical-Chemical Properties	Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

## <u>3.1. Mixture</u>

-	90.0 ~ 95.0
-	1.0 ~ 5.0
-	< 2.0
	-

Hazardous ingredients	Do not contain hazardous substance nor substance with European workplace exposure limits in concentration above regulatory thresholds
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 sympt	oms 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

Notes to physician

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES** 



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19Revision Date: 2016-10-19Version 1

# 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 material from
	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

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.



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19 Revision Date: 2016-10-19 Version 1 Ensure the application of strict rules of hygiene by the personnel exposed to the risk of Hygiene measures 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 Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep **Technical measures/Storage** container tightly closed. Keep preferably in the original container. Otherwise reproduce all conditions 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	ACGIH STEL 10mg/m <sup>3</sup> (Oil mist)
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	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 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.
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



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

**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		Dark brown liquid Characteristic	
Property	<u>Values</u>	Remarks	Method
pH Boiling point/boiling range		Not applicable Not applicable	
Flash point	<b>254 °C</b> 489 °F		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	881.6 kg/m₃	No information available No information available No information available @ 15 °C Soluble No information available	
logPow Autoignition temperature		No information available No information available	
Viscosity, kinematic	98.26 mm <sup>2</sup> /s	@ 40 °C	
Explosive properties	Not explosive		
Oxidizing Properties Possibility of hazardous reactions	Not applicable Not applicable		
9.2. Other information			
Other Information	No information available.		
10. STABILITY AND REAC	τινιτγ		
10.1. Reactivity			
<b>10.1. Reactivity</b> General Information	No information available.		
General Information		ed storage conditions.	
General Information 10.2. Chemical stability	No information available. Stable under recommende	ed storage conditions.	
General Information <u>10.2. Chemical stability</u> Stability	No information available. Stable under recommende	Ū	
General Information 10.2. Chemical stability Stability 10.3. Possibility of hazard	No information available. Stable under recommende	Ū	
General Information <b>10.2. Chemical stability</b> Stability <b>10.3. Possibility of hazard</b> Hazardous Reactions	No information available. Stable under recommende lous reactions None under normal proces	Ū	pints, flames, static electricity.)
General Information 10.2. Chemical stability Stability 10.3. Possibility of hazard Hazardous Reactions 10.4. Conditions to Avoid	No information available. Stable under recommende lous reactions None under normal proces Heat (temperatures above	ssing.	pints, flames, static electricity.)



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

## **10.6. Hazardous Decomposition Products**

Hazardous Decomposition CO, CO<sub>2</sub>, Carbon oxide. Product

# **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	LD50 Oral	LD50 Dermal	LC50 Inhalation
SEVERELY HYDROTREATED	LD50 > 15000mg/kg	LD50 > 5000mg/kg	
HEAVY PARAFFINIC DISTILLATE	(Rat)	(Rabbit)	-

#### **Sensitization**

Chemical Name	Sensitization	
MIXED PERFORMANCE ADDITIVE	Eye : Contact with the eyes causes permanent damage, including blindness. Symptoms may include pain, tearing, reddening, swelling and impaired vision. If this material is heated, thermal burns may result from eye contact.	
MIXED PERFORMANCE ADDITIVE (EYE)	Skin : Repeated contact with the skin may cause irritation. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin. If this material is heated, thermal burns may result from skin contact.	

## 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.	
Other information		
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).	



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

# **12. ECOLOGICAL INFORMATION**

# 12.1. Toxicity

Aquatic toxicity - Product Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	LC50 >1000mg/L 96hr	LC50 >1000mg/L 48hr	LC50 >1000mg/L 96hr

#### 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.

## **General Information**

No information available.

#### **12.3. Bioaccumulative potential**

#### Product Information

Chemical Name	Biodegradability
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	6% (28days)

logPow

#### 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 Soluble.

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

PBT and vPvB assessment No information available.

#### **12.6. Other adverse effects**



# S-OIL MARINE TP 1230

Date of the previous version: 2016-10-19

Revision Date: 2016-10-19

Version 1

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		

## **15. REGULATORY INFORMATION**

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

#### **European Union**

#### **International Inventories**

No information available

#### **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	*** .	Trade secret
M:	Mutagen	C:	Carcinogen



# S-OIL MARINE TP 1230

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Version 1

Revision Date: Revision Note 2016-10-19 \*\*\* 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 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