

S-OIL COMPRESSOR RS 32

Date of the previous version: 2017-10-25

Revision Date: 2017-10-25

Version 1

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

1.1. Product identifier

Product nameS-OIL COMPRESSOR RS 32Pure substance/mixtureMixture

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

Recommended Use

Compressor oil.

1.3. Details of the supplier of the safety data sheet

Supplier

S-OIL CORPORATION 192, Baekbeom-ro, Mapo-gu Seoul 121-805, Korea

For further information, please contact:

1.4. Emergency telephone number

Korea

+ 82 2 3772-5733

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification

2.2. Label elements

GHS label elements, including precautionary statements

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

2.. Other hazards

Physical-Chemical Properties	Contaminated surfaces will be extremely slippery.
Environmental properties	Should not be released into the environment



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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	> 98.0
Lubricating additive	-	-	< 2.0
Additional information	Product containing n IP 346	nineral oil with less th	an 3% DMSO extract as measured
4. FIRST AID MEASURES			
4.1. Description of first-aid meas	sures		
General advice	IN CASE OF SERIO OR EMERGENCY N		T CONDITIONS, CALL A DOCTOR
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 a	nd effects, both a	acute and delay	red
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 med	dical attention an	nd special treat	ment needed, if necessary

Notes to

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

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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

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 Version GHS



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	with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.	
7.2. Conditions for safe sto	ge, 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 seal breakage, for example) onto hot casings or electrical contacts. Protect fr frost, heat and sunlight. Protect from moisture.	er. e to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/F	RSONAL PROTECTION	
8.1. Control parameters		
Exposure limits	oil mist : 10mg/m ³ , for 15 minutes; oil mist : 5mg/m ³ , 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. Respirators 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		
General Information	The product should not be allowed to enter drains, water courses or the soil.	



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Bright and clear

Characteristic

liquid

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor

<u>Property</u> pH Boiling point/boiling range	<u>Values</u>	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	256 °C 493 °F 842 kg/m ³ Negligible 5.990 mm ² /s 32.18 mm ² /s Not explosive Not applicable Not applicable	No information available No information available No information available @ 15 °C Insoluble No information available No information available No information available @ 100 °C @ 40 °C	Cleveland Open Cup (COC) Cleveland Open Cup (COC)

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

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.



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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 > 200mg/kg (Rat, Dermal), Practically non-toxic.
Eye contact	. Not classified.
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	. Not classified.
Acute toxicity - Component Infor Not classified.	mation
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.
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

General Information	No information available.
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Effects on terrestrial organisms No information available.

12.2. Persistence and degradability

General Information No information available.

12.3. Bioaccumulative potential



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Product Information	No information available.			
logPow	No information available			
Component Information	No information available.			
<u>12.4. Mobility in soil</u>				
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 CONSIDER	ATIONS			
13.1. Waste treatment me	ethods			
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			
ADN	Not regulated			
15. REGULATORY INFORMATION				

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

International Inventories



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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 + ** M:	Sensitizer Hazard Designation Mutagen	* C: R:	Skin designation Carcinogen Toxic to reproduction
Revision Date: Revision Note	2017-10-25 *** 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