

# HI PUMP 32

Date of the previous version: 2015-04-16

Revision Date: 2015-04-16

Version 1

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

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

Product nameHI PUMP 32Pure substance/mixtureMixture

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

Recommended Use

Hydraulic 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

Symbol(s)	Not Classified

Signal Words Not Classified

### **2.3. GHS Precautionary Statements**

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

### 2.4. 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



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### 3.1. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	<95
(4-Nonylphenoxy) acetic acid	3115-49-9	-	0.1~0.5
N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl) Methyl) amine	91273-04-0	-	0.1~0.5
N,N-bis(2-ethylhexyl)-4-methyl-1H-benzo triazole -1-methylamine	80584-90-3	-	0.01~0.2
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzo triazole -1-methylamine	80595-74-0	-	0.01~0.2
Mixed Performance Additive	Mixture	-	<5

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 m	edical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**



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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 such as carbon monoxide, carbon dioxide, various hydrocar and soot. These maybe highly dangerous if inhaled in confir high concentration.	rbons, aldehydes
5.3. Advice for fire-fighters		
Special protective equipment for fire- fighters	Wear self-contained breathing apparatus and protective su	it.
Other information Cool containers / tanks with water spray. Fire residues and conextinguishing water must be disposed of in accordance with low		
6. ACCIDENTAL RELEASE MEASU	IDEC	

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
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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.



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Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/bo containers, tanks and transfer/receiving equipment.	nd
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel ex risk of contact with the product. Regular cleaning of equipment, wor clothing is recommended. Wash hands before breaks and immediat handling the product. Do not use abrasives, solvents or fuels. Do not with rags that have been contaminated with product. Do not put pro contaminated rags into workwear pockets.	k area and tely after ot dry hands
7.2. Conditions for safe stor	age, including any incompatibilities	
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bur Keep container tightly closed. Keep preferably in the original contain Otherwise reproduce all indication of the regulation label on the new Do not remove the hazard labels of the containers (even if they are Design the installations in order to avoid accidental emissions of pro seal breakage, for example) onto hot casings or electrical contacts. frost, heat and sunlight. Protect from moisture.	ner. v container. empty). oduct (due to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
	DEGNAL DROTECTION	
8. EXPOSURE CONTROLS/PI	ROUTECTION	
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 When working in confined spaces (tanks, containers, etc.), ensure t a supply of air suitable for breathing and wear the recommended ec	hat there is
Personal Protective Equipment		
ł	the product is used in mixtures, it is recommended that you contact the approtective equipment suppliers. These recommendations apply to the upplied.	
 (	/hen workers are facing concentrations above the exposure limit they must ppropriate certified respirators. Respirator with combination filter for vapour/ EN 14387). The use of breathing apparatus must comply strictly with the ma istructions and the regulations governing their choices and uses.	particulate
Eye Protection	splashes are likely to occur, wear:. Safety glasses with side-shields.	
Skin and body protection	Vear suitable protective clothing. Protective shoes or boots. Long sleeved cl	othing.
i	lydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe istructions regarding permeability and breakthrough time which are provided upplier of the gloves. Also take into consideration the specific local conditior	d by the



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Date of the previous version: 2015-04-16 Revision Date: 2015-04-16 Version 1 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 Clear and Brigth Color Physical State @20°C liquid Color Characteristic

•••••		enaracteriotic	
<u>Property</u> pH Boiling point/boiling range	Values	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point	<b>220 °C</b> 428 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density	845 kg/m3	No information available No information available No information available No information available @ 15 °C	
Water solubility Solubility in other solvents logPow	Negligible	Insoluble No information available No information available	
Autoignition temperature Viscosity, kinematic	>250 °C 6.010 mm2/s	@ 100 °C	
	32. 21 mm2/s	@ 40 °C	
Explosive properties	Not explosive		
Oxidizing Properties Possibility of hazardous reactions	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**

**Conditions to Avoid** 

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.



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10.5. Incompatible Materials				
Materials to Avoid	Strong oxidizing agents.			
10.6. Hazardous Decompositio	on Products			
Hazardous Decomposition Product	None under normal use.			
11. TOXICOLOGICAL INF	ORMATION			
11.1. Information on toxic	cological effects			
Acute toxicity Local effects Product Information				
Skin contact	. Not classified. High pressure injection of the products under the skin may have serious consequences even though no symptom or injury may be apparent. LD50 > 200mg/kg (Rat, Dermal), Practically non-toxic.	e very		
Eye contact	. Not classified.			
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation or respiratory system.	of		
Ingestion	. LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic.			
Acute toxicity - Component Info	rmation			
<u>Sensitization</u>				
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 reperexposures (contact with contaminated clothing).	ated		

# **12. ECOLOGICAL INFORMATION**

# 12.1. Toxicity

LC 50	No information available.
EC 50	No information available.
IC 50	No information available.



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Effects on terrestrial organisms	No information availab	le.		
12.2. Persistence and degradability				
General Information	No information availab	le.		
12.3. Bioaccumulative potential				
Product Information	No information availab	le.		
logPow	No information availab	le		
Component Information	No information availab	le.		
<u>12.4. Mobility in soil</u>				
Soil	Given its physical and mobility.	chemical characteristics, the product generally shows lo	<i>w</i> soil	
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 availab	le.		

### 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 INFORM	

## **14. TRANSPORT INFORMATION**

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN	Not regulated



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## **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 - E

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
Revision Date:	2015-04-16 *** Indicates updated section.		
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