

# Material Safety Data Sheet

<b>Trade Name</b>	<b>SHL COMPRESSOR 100N-1</b>
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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>Trade Name</b>	SHL COMPRESSOR 100N-1
<b>General Characteristics</b>	Petroleum hydrocarbon & additives
<b>Hazard Classification</b>	Harmful substance to inhalation
<b>Application</b>	Compressor oil
<b>Manufacturer's Name &amp; Address</b>	SHL ASEAN CO., LTD.

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<b>Supplier's Name</b>	SHL ASEAN CO., LTD.
<b>Department</b>	Technical Institute

## 2. HAZARD IDENTIFICATION

### HAZARD CLASSIFICATION

Dermal Irritation. Category 2  
Severe eye damage / irritation Category 2  
Chronic aquatic environmental hazard Category 3

### LABEL ELEMENTS

#### GHS Pictogram.



#### Signal Words

Warning

#### Hazard statements

H315	Causes skin irritation
H319	Causes severe eye irritation
H412	Harmful to aquatic organisms due to long-term effects.

#### Precautionary statement

#### Prevention

P264	Wash your hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

#### Countermeasure

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	First aid. (See item 4)
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.
P305+P351+P338	If it gets on your eyes, wash it carefully with water for a few minutes. If

possible, remove contact lenses.

#### Storage

No data

#### Disposal

P501 Dispose of the substance & containers according to the current rules and regulations.

#### OTHER HAZARDS

##### NFPA Index

Hydrotreated (mild) heavy paraffinic distillate : - Health-1,- Fire-1,- Reaction-0

Other ingredient : No data

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	Synonyms	CAS No.	Concentration (%)
Hydrotreated (mild) heavy paraffinic distillate	Base oil	64742-54-7	58-78
Hydrotreated light paraffinic distillate	Base oil	64742-54-8	20-40
Hydroxyalkyl carboxylic acid	No data	Secret	< 1
Alkyl methacrylate polymer	Alkyl methacrylate polymer	104199-42-0	< 0.5
N,N-Bis(2-ethylhexyl)-ar-methyl-1H-benzotriazole-1-methanamine	No data	94270-86-7	0.1 - 1
Secret 1	Secret	Secret	< 1
Secret 2	Secret	Secret	0.1 - 1

### 4. FIRST AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES

##### Eye Contact

Get emergency medical attention.

Rinse skin and eyes immediately with plenty of water for at least 20 minutes when in contact with the material.

##### Skin Contact

Get emergency medical attention.

Remove contaminated clothing and shoes and isolate contaminated areas.

In contact with material, rinse skin and eyes immediately with running water for more than 20 minutes.

Prevent spread of contamination on mild skin contact

If skin irritation develops, seek medical advice and advice.

Remove contaminated clothing and wash before reuse.

##### Inhalation

Move to a place with fresh air.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Please warm and stabilize.

### **Ingestion**

Get emergency medical attention.

### **Advice to Physician**

If necessary, gastrolavage should be considered.

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

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### **EXTINGUISHING MEDIA**

**Extinguishing Media** Dry chemical, carbon dioxide, water, normal foam

**Unsuitable Extinguishing Media** : No data

### **Hazardous Substance Created during Burning**

Smoke, Fume, Incomplete combustion products, Oxides of carbon

### **Extinguishing Method and Extinguisher**

Evacuate area.

Shut off all sources of fuel if possible, and use water to cool fire-exposed materials.

Use water to cool fire-exposed tanks, containers, and structures.

Fight horizontal tank fires from side of the tank.

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

Use water spray to cool fire exposed surfaces and to protect personnel.

Use foam if exposed to heat or flame.

### **FIRE FIGHTING INSTRUCTIONS**

**Flash Point [Method]:** 280°C (ASTM D92)

**Upper/Lower Flammable Limits (Approximate volume % in air):** No data

**Autoignition Temperature:** No data

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## **6. ACCIDENT RELEASE MEASURES**

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### **Human Body Protection Methods**

Avoid inhalation and skin exposure.

Change pollutant clothes to new one.

Wear air respirator or ventilate the air in an airtight room.

Shut off source of exposure or remove source of fire.

In case of inadequate ventilation wear respiratory protection.

### **Environment Protection Methods**

Do not directly expose the substance to nature.

Dispose the substance as wastewater to prevent water pollution.

If the area is polluted, eliminate the substance by using absorbent.

### **Clean Up Methods**

Use sand or nonflammable absorber.

Use water to dilute gas.

Collect exposed materials in a proper container to dispose them.

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## 7. HANDLING AND STORAGE

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### PRECAUTIONS FOR SAFE HANDLING

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Wash your hands and body thoroughly after handling.

Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

Do not heat, pressurise, cut, weld, braze, drill, grind empty containers

Thus, do not work near empty containers.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Keep containers closed when not in use.

Do not use compressed air for filling, discharging or handling.

**Loading/Unloading Temperature:** Ambient

**Transport Temperature:** Ambient

**Transport Pressure:** Ambient

### CONDITIONS FOR SAFE STORAGE

Store the substance according to the current rules and regulations.

Store the substance in a cool and well-ventilated area.

Seal the storage container up and do not have a physical impact on the container.

**Storage Temperature:** Ambient

**Storage Pressure:** Ambient

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### OCCUPATIONAL EXPOSURE LIMIT

Chemical identity	Exposure limit in KOREA	ACGIH control acts	Biological exposure limit
Hydrotreated heavy paraffinic distillate	No data	5 mg/m <sup>3</sup> for mineral oil mist	No data
Other ingredients	No data	No data	No data

### ENGINEERING CONTROLS

Adequate ventilation in accordance with good engineering practice must be provided to keep any oil mist concentration below the PEL.

Check if the exposure is proper within the exposure criteria.

### PERSONAL PROTECTION

#### Respiratory Protection

Not required under normal usage.

If product is handled in such a way as to create a vapor or mist, approved respirator should be used to prevent overexposure.

Use either a full-face, atmospheresupplying respirator or an air-purifying respirator for organic vapors.

#### Eye Protection

Wear chemical goggles to prevent eye contact from scattering materials or harmful liquids.

Install spray washing system for eyes near the work field.

**Hand Protection**                      Wear chemical-resistant gloves, if needed.

**Body Protection**                      Wear chemical-resistant protective clothing.

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## 9. PHYSICAL AND CHEMICAL INFORMATION

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<b>Appearance</b>	Pale yellow transparent liquid
<b>Odor</b>	Unique hydrocarbon odor
<b>pH</b>	N/A
<b>Melting Point</b>	< -10 °C
<b>Boiling point</b>	No data
<b>Flash Point</b>	>280 °C (ASTM D92)
<b>Oxidation</b>	Stable
<b>Flammability</b>	Stable
<b>Explosion</b>	Stable
<b>Vapor Pressure</b>	No data
<b>Solubility In Water</b>	Insoluble in water
<b>Vapor Density</b>	> 1 (Air=1)
<b>Specific Gravity</b>	0.873 (15/4 °C)
<b>Distribution Coefficient</b>	No data
<b>Autoignition Temp.</b>	No data
<b>Dissolution Temp.</b>	No data
<b>Viscosity</b>	105.7 cSt (40 °C)
<b>Molecular weight</b>	No data

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## 10. STABILITY AND REACTIVITY

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### CHEMICAL STABILITY

Stable in normal temperature and pressure, and for normal usage

### POSSIBILITY OF HAZARDOUS REACTIONS

Will not occur.

### CONDITIONS & MATERIALS TO AVOID

Strong oxidants

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition product. Toxic carbon compounds may be included (e.g. CO).

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## 11. TOXICOLOGICAL INFORMATION

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### URGENT RISK & HARMFULNESS INFORMATION

#### Inhalation

Inhalation of vapors may cause irritation of the respiratory tract and cough, dyspnea, drowsiness, dizziness, headache and nausea

#### Eye Contact

May cause irritation.

**Skin Contact**

May cause slight irritation. Repeated contact may result in skin troubles

**Ingestion**

Ingestion may result in irritation, vomiting, diarrhea, stomachache

**TOXICOLOGICAL INFORMATION****Acute Oral Toxicity**

Hydrotreated heavy paraffinic distillate : LD50 > 15000mg/kg Rat

Secret 1 LD50 > 2000mg/kg Rat

Other Ingredient No data

**Acute Dermal Toxicity**

Hydrotreated heavy paraffinic distillate LD50 > 5000mg/kg Rat

Secret 1 LD50 > 2000mg/kg Rat

Other Ingredient No data

**Acute Inhalation Toxicity**

No data

Hydrotreated heavy paraffinic distillate LC50 2.18mg/L/4hr Rat (Mist)

Secret 1 LD50 > 2000mg/kg Rat

Other Ingredient No data

**Dermal Irritability**

May cause mild irritation

**Eye Irritability**

May cause mild irritation

**Subacute Toxicity**

No data

**Repeated Dose Toxicity**

No data

**Mutagenicity**

No data

**Effect on Next Generation (Reproductive Toxicity)**

No data

**Carcinogenicity**

Not applicable(less than 3% DMSO extract as measured by the IP346 method)

**12. ECOLOGICAL INFORMATION****AQUATIC TOXICITY AND ECOTOXICITY****Chronic and Aquatic Toxicity**

This material may be slightly toxic to aquatic organisms.

**MOBILITY**

Lubricant mineral oils, immediately following a release into the environment, will remain largely on the soil surface, on the water surface and in the water.

**BIODEGRADABILITY**

Hydrotreated (mild) heavy paraffinic distillate : 6 (%) 28 day (aerobic, domestic sewage, not easily degradable)

**POSSIBILITY OF BIOACCUMULATION** : Not measured

**13. DISPOSAL CONSIDERATION****REGULATION OF WASTE MANAGEMENT ACT**

Classified as specified wastes.

**WASTE DISPOSAL METHODS**

Dispose in a legal self-disposal system or through waste disposal company.

### CAUTION FOR DISPOSAL

Follow the detailed criteria of Wastes Control Act.

#### Empty Container Warning

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions.

Empty drums should be completely drained and safely stored until reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

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## 14. TRANSPORT INFORMATION

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### Classification and Regulation According to Ship Transportation and Storage Rule of Hazardous Material of Ship Safety Act

Not Regulated

#### Caution during Transport

No data

**Marine pollutant** : No data

### Classification and Regulation According to Rule of Foreign Transportation

Not Regulated for transport according to UN, IMDG, ADR/RID, IATA/ICAO codes

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## 15. REGULATORY INFORMATION

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<b>Chemical Control Act</b>	N/A
<b>High-Pressure Gas Safety Control Act</b>	N/A
<b>Wastes Control Act</b>	Classified as specified wastes.
<b>Act on Safety Management of Dangerous Goods</b>	
No regulated	
<b>Regulation According to Foreign Laws</b>	
USA : CERCLA 103(40CFR302.4) :	N/A
OSHA(29CFR1910.119) :	N/A
SARA 302(40CFR355.30) :	N/A
SARA 304(40CFR355.40) :	N/A
SARA 313(40CFR372.65) :	N/A
OSHA(29CFR1910.119) :	N/A

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## 16. OTHER INFORMATION

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### Source

Material's data of our laboratories, Korea Occupational Safety & Health Agency and raw material supplier

**Written Date** 04-Feb-14

**Revision Count. Final Revision Date** Rev. 3 15-Jun-21

### Other References

The information and recommendations contained herein are, to the best of our's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet. If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.