

# Material Safety Data Sheet

<b>Trade Name</b>	<b>SHL MTF 80W90IV</b>
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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>Trade Name</b>	SHL MTF 80W90IV
<b>General Characteristics</b>	Petroleum hydrocarbon & additives
<b>Hazard Classification</b>	Harmful substance to inhalation
<b>Application</b>	Transmission oil

### Manufacturer's Name & Address

SHL ASEAN CO., LTD.

Address: My Xuan B1-Conac Industrial Zone, My Xuan Ward, Phu My Town, Ba Ria Vung Tau Province, Vietnam.

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**Supplier's Name** SHL ASEAN CO., LTD.

**Department** Technical Institute

## 2. HAZARD IDENTIFICATION

**HAZARD CLASSIFICATION** Skin corrosion / irritation: Category 2

### LABEL ELEMENTS

**GHS Pictogram.**



**Signal Words** Warning

**Hazard statements** H315: Causes skin irritation

### Precautionary statement

#### Prevention

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P270: Do not eat, drink or smoke when using this product.

#### Countermeasure

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing

P362+P364: Remove contaminated clothing and wash before reuse

P301+P312: If swallowed and feel uncomfortable, seek medical advice (doctor).

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

#### Storage

P405: Store locked up.

### Disposal

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

### OTHER HAZARDS

#### NFPA Index

Hydrotreated Heavy Paraffinic Distillate : Public health :1, Fire : 1, Reaction : 0

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical identity	Synonyms	CAS No.	Concentration (%)
Hydrotreated heavy (light) paraffinic distillate	Base oil	64742-54-7	>90
Mixed Performance Additive	Additive Mixture	Secret	1-5
Polymer Esters of Methacrylic Acid and Mixed long chain Alcohols	Additive Mixture	Secret	<2

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### 4. FIRST AID MEASURES

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#### DESCRIPTION OF FIRST AID MEASURES

##### Eye Contact

Open the eyelid and wash the eye with water over 15 minutes.

If the eye is bloodshot and the congestion maintains continuously, receive medical treatment immediately

Move person to fresh air

##### Skin Contact

Wash thoroughly with soap and water.

Take off contaminated clothing and wash before reuse.

If the irritation maintains on the skin continuously, receive medical treatment.

##### Inhalation

Expose to fresh air. If not recovered, seek medical aid.

If breathing has stopped, apply artificial respiration and administer oxygen if necessary.

##### Ingestion

If swallowed much amount, receive medical treatment Immediately.

##### Advice to Physician

If necessary, gastrolavage should be considered.

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### 5. FIRE-FIGHTING MEASURES

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#### EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide, water fog, normal foam

**Unsuitable Extinguishing Media :** Straight streams of water

#### **HAZARDOUS SUBSTANCE CREATED DURING BURNING**

Smoke, Fume, Incomplete combustion products, Oxides of carbon

#### **Extinguishing Method and Extinguisher**

Evacuate area.

Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

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.

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing

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

Use foam if exposed to heat or flame.

#### **FLAMMABILITY PROPERTIES**

**Flash Point [Method]:** 250 °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 if possible.

### **Environment Protection Methods**

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**

Prevent skin contact, vapor inhalation, and eye contact.

Empty containers may retain product residue including flammable or explosive vapors.

**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 (light) paraffinic distillate	No data	5 mg/m <sup>3</sup> for mineral oil	No data
Mixed Performance Additive	No data	No data	No data
Polymer Esters of Methacrylic Acid and Mixed long chain Alcohols	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.

Respirator shall be certified by Korea Occupational Safety & Health Agency.

#### 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>	Yellow transparent liquid
<b>Odor</b>	Unique hydrocarbon odor
<b>pH</b>	N/A
<b>Melting Point</b>	< -24.0 °C
<b>Boiling point</b>	No data
<b>Flash Point</b>	250 °C (ASTM D92)
<b>Oxidation</b>	Stable
<b>Flammability</b>	Stable
<b>Explosion</b>	Stable
<b>Vapor Pressure</b>	< 0.1 mmHg @20 °C
<b>Solubility In Water</b>	Unsoluble in water
<b>Vapor Density</b>	> 1 (Air=1)
<b>Specific Gravity</b>	0.87 (15/4 °C)
<b>Distribution Coefficient</b>	No data
<b>Autoignition Temp.</b>	No data
<b>Dissolution Temp.</b>	No data
<b>Viscosity</b>	128.4 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

All sources of ignition and excessive heat, and 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

No data

**Eye Contact**

No data

**Skin Contact**

No data

**Ingestion**

No data

**TOXICOLOGICAL INFORMATION**

**Acute Oral Toxicity**

Hydrotreated paraffinic distillate : LD50 > 5000 mg/kg Rat

Other ingredients : No data

**Acute Dermal Toxicity**

Hydrotreated paraffinic distillate : LD50 > 5000 mg/kg Rabbit

Other ingredients : No data

**Acute Inhalation Toxicity**

No data

**Dermal Irritability** No data

**Eye Irritability** No data

**Subacute Toxicity** No data

**Repeated Dose Toxicity** No data

**Mutagenicity** N/A

**Effect on Next Generation** N/A

**Carcinogenicity** N/A (<3% (DMSO extract))

**ADDITIONAL ADVICE** Repeated exposure may decrease the fat of skin and result in dermatitis

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**12. ECOLOGICAL INFORMATION**

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**AQUATIC TOXICITY AND ECOTOXICITY**

**Chronic and Aquatic Toxicity**

Harmful to aquatic life with long lasting effects.

**MOBILITY IN SOIL**

log Kow = 3.9 ~ 6 (Estimates)

**PERSISTENCE / DEGRADABILITY**

6% degradable during 28 days. (Hydrotreated heavy paraffinic distillate)

This product is expected to be resistant to biodegradation and to persist in the environment.

**POSSIBILITY OF BIOACCUMULATION** : No data

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### **13. DISPOSAL CONSIDERATION**

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#### **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 appropriately 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.

DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

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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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#### **Regulation According to the Substance Control Act of Another Department such as Toxic**

**Substance Control Act** : N/A

**Toxic Substance Control Act** : N/A

**High-Pressure Gas Safety Control Act** : N/A

#### **Act on Safety Management of Dangerous Goods**

Not classified as dangerous goods

## Regulation According to Foreign Laws

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

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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** 24-Feb-21

**Revision Count. Final Revision Date** Rev. 1 15-Jun-21

### Other References

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