

# SAFETY DATA SHEET

## XTeer TPEO 4050

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### 1. IDENTIFICATION

#### A. Product name

- XTeer TPEO 4050

#### B. Recommended use and restriction on use

- General use : Marine piston engine oil  
 - Restriction on use : Not available

#### C. Manufacturer / Supplier / Distributor information

- Company name : Hyundai Oilbank Co., Ltd.  
 - Address : 20F, Yonsei Severance Bldg., Tongil-ro 10-gil, Jongno-gu, Seoul, Korea  
 - Dept. : Production&Technology Team  
 - Telephone number : 02-2004-3000  
 - Emergency telephone number : 02-2004-3000

### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Skin sensitization : Category1

#### B. GHS label elements

##### Hazard symbols



##### Signal words

- Warning

##### Hazard statements

- H317 May cause an allergic skin reaction

##### Precautionary statements

###### 1) Prevention

- P261 Avoid breathing gas/mist/vapours/spray.  
 - P272 Contaminated work clothing should not be allowed out of the workplace.  
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.

###### 2) Response

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 - P321 Specific treatment  
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 - P363 Wash contaminated clothing before reuse.

###### 3) Storage

- Not applicable

###### 4) Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

**C. Other hazards which do not result in classification : (NFPA Classification)****○ NFPA grade (0 ~ 4 level)**

- Health : 0, Flammability : 1, Reactivity : 0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
Distillates (petroleum), hydrotreated light paraffinic	Mineral oil, petroleum distillates, hydrotreated (severe) light paraffinic	64742-55-8	80~90
Additive mixture 1	-	-	15~20
Additive mixture 2	-	-	1~2

**4. FIRST AID MEASURES****A. Eye contact**

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.

**B. Skin contact**

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.
- Go to the hospital immediately if symptoms (flare, irritate) occur.
- Wash thoroughly after handling.

**C. Inhalation contact**

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

**D. Ingestion contact**

- About whether I should induce vomiting Take the advice of a doctor.
- Rinse your mouth with water immediately.

**E. Delayed and immediate effects and also chronic effects from short and long term exposure**

- Not available

**F. Notes to physician**

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

**5. FIREFIGHTING MEASURES****A. Suitable (Unsuitable) extinguishing media**

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

**B. Specific hazards arising from the chemical**

- Not available

**C. Special protective actions for firefighters**

- Cool containers with water until well after fire is out.
- Keep unauthorized personnel out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Notify your local fire station and inform the location of the fire and characteristics hazard.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.

## 6. ACCIDENTAL RELEASE MEASURES

### A. Personal precautions, protective equipment and emergency procedures

- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Move container to safe area from the leak area.
- Remove all sources of ignition.
- Do not direct water at spill or source of leak.
- Avoid skin contact and inhalation.

### B. Environmental precautions

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

### C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.

## 7. HANDLING AND STORAGE

### A. Precautions for safe handling

- Refer to Engineering controls and personal protective equipment.
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.

### B. Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Do not use damaged containers.
- Do not apply direct heat.
- No open fire.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### A. Exposure limits

- ACGIH TLV**
  - [Distillates (petroleum), hydrotreated light paraffinic] : TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
- OSHA PEL**
  - Not available

### B. Engineering controls

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

### C. Individual protection measures, such as personal protective equipment

- Respiratory protection**
  - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
  - Respiratory protection is ranked in order from minimum to maximum.

- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health : Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.
- **Eye protection**
  - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
  - Provide an emergency eye wash station and quick drench shower in the immediate work area.
- **Hand protection**
  - Wear appropriate glove.
- **Skin protection**
  - Wear appropriate clothing.
- **Others**
  - Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Liquid
- Color	Dark amber
B. Odor	Mild
C. Odor threshold	Not available
D. pH	Not available
E. Melting point/Freezing point	Not available
F. Initial Boiling Point/Boiling Ranges	Not available
G. Flash point	> 200 °C
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	Not available
L. Solubility	Not available
M. Vapour density	Not available
N. Specific gravity(Relative density)	0.897
O. Partition coefficient of n-octanol/water	Not available
P. Autoignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	13.6 cSt @100°C
S. Molecular weight	Not available

## 10. STABILITY AND REACTIVITY

### A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

### B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

### C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

### D. Incompatible materials

- Not available

## E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

## 11. TOXICOLOGICAL INFORMATION

### A. Information on the likely routes of exposure

- (Respiratory tracts)**
  - Not available
- (Oral)**
  - Not available
- (Eye-Skin)**
  - May cause an allergic skin reaction

### B. Delayed and immediate effects and also chronic effects from short and long term exposure

- Acute toxicity**
  - \* **Oral - >5000mg/kg**
    - [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 5000 mg/kg Rat
  - \* **Dermal - ATE MIX : Not available**
    - [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 2000 mg/kg Rabbit
  - \* **Inhalation - ATE MIX : 1.0mg/L < ATEmix <= 5.0mg/L**
    - [Distillates (petroleum), hydrotreated light paraffinic] : Mist LC50 2.18 mg/ℓ 4 hr Rat
- Skin corrosion/irritation**
  - Not available
- Serious eye damage/irritation**
  - Not available
- Respiratory sensitization**
  - Not available
- Skin sensitization**
  - May cause an allergic skin reaction
- Carcinogenicity**
  - \* **IARC**
    - Not available
  - \* **OSHA**
    - Not available
  - \* **ACGIH**
    - [Distillates (petroleum), hydrotreated light paraffinic] : A4
  - \* **NTP**
    - Not available
  - \* **EU CLP**
    - [Distillates (petroleum), hydrotreated light paraffinic] : Carc.1B
- Germ cell mutagenicity**
  - Not available
- Reproductive toxicity**
  - Not available
- STOT-single exposure**
  - Not available
- STOT-repeated exposure**
  - Not available
- Aspiration hazard**
  - Not available

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

- Fish**
  - [Distillates (petroleum), hydrotreated light paraffinic] : LC50 > 5000 mg/ℓ 96 hr Oncorhynchus mykiss

**Crustaceans**

- [Distillates (petroleum), hydrotreated light paraffinic] : EC50 > 1000 mg/l 48 hr Daphnia magna

**Algae**

- Not available

**B. Persistence and degradability**

**Persistence**

- [Distillates (petroleum), hydrotreated light paraffinic] : log Kow 3.9 ~ 6 (Estimates)

**Degradability**

- Not available

**C. Bioaccumulative potential**

**Bioaccumulative potential**

- Not available

**Biodegradation**

- [Distillates (petroleum), hydrotreated light paraffinic] : 6 (%) 28 day (Aerobic, Domestic wastewater, does not decompose easily)

**D. Mobility in soil**

- Not available

**E. Other adverse effects**

- Not available

**13. DISPOSAL CONSIDERATIONS**

**A. Disposal methods**

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

**B. Special precautions for disposal**

- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

**14. TRANSPORT INFORMATION**

**A. UN No. (IMDG)**

- Not available

**B. Proper shipping name**

- Not available

**C. Hazard Class**

- Not available

**D. IMDG Packing group**

- Not available

**E. Marine pollutant**

- Not applicable

**F. Special precautions for user related to transport or transportation measures**

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

## 15. REGULATORY INFORMATION

### A. National and/or international regulatory information

- POPs Management Law**
  - Not applicable
- Information of EU Classification**
  - \* **Classification**
    - [Distillates (petroleum), hydrotreated light paraffinic] : Carc. Cat. 2; R45
  - \* **Risk Phrases**
    - [Distillates (petroleum), hydrotreated light paraffinic] : R45
  - \* **Safety Phrase**
    - [Distillates (petroleum), hydrotreated light paraffinic] : S53, S45
- U.S. Federal regulations**
  - \* **OSHA PROCESS SAFETY (29CFR1910.119)**
    - Not applicable
  - \* **CERCLA Section 103 (40CFR302.4)**
    - Not applicable
  - \* **EPCRA Section 302 (40CFR355.30)**
    - Not applicable
  - \* **EPCRA Section 304 (40CFR355.40)**
    - Not applicable
  - \* **EPCRA Section 313 (40CFR372.65)**
    - Not applicable
- Rotterdam Convention listed ingredients**
  - Not applicable
- Stockholm Convention listed ingredients**
  - Not applicable
- Montreal Protocol listed ingredients**
  - Not applicable

## 16. OTHER INFORMATION

### A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

### B. Issue date

- 2016-10-27

### C. Revision number and Last date revised

- 3 times, 2016-10-27

### D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).