

# SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

## XTeer 2T (ENG)

Date of issue: 2018-10-10

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Version: 6.0

### 1. IDENTIFICATION

#### A. Product name

- XTeer 2T (ENG)

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

- General use : 2stroke engine oil
- Restriction on use : Do not use for purposes other than recommended.

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

##### Manufacturer information

- Company name : HD HYUNDAI OILBANK
- Address : 17-10, Mabuk-ro 240beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
- Emergency telephone number : 1588-5189

##### Supplier/Distributor information

- Company name : HD HYUNDAI OILBANK
- Address : 17-10, Mabuk-ro 240beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
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### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Skin corrosion/irritation : Category2
- Carcinogenicity : Category1B
- Specific target organ toxicity(Single exposure) : Category3(Narcotic effects)
- Aspiration hazard : Category1

#### B. GHS label elements

##### Hazard symbols



##### Signal words

- Danger

##### Hazard statements

- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H336 May cause drowsiness and dizziness.
- H350 May cause cancer

##### Precautionary statements

#### 1) Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### 2) Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment (if in eyes, wash with plenty of running water; if in contact with skin, wash with plenty of running water; if inhaled, move to fresh air; if ingested, seek medical advice on whether to induce vomiting).
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash before reuse.

#### 3) Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

#### 4) Disposal

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

#### C. Other hazards which do not result in classification

- Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
Distillates (petroleum), hydrotreated heavy paraffinic	Emulsifiable oil	64742-54-7	45 ~ 55
Polybutylene	Glissopal 93026	9003-29-6	20 ~30
Distillates (petroleum), hydrotreated light	Deodorized kerosene ; Low odor paraffinic solvent	64742-47-8	20 ~30

### 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.
- Get medical attention immediately.

#### B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.
- Go to the hospital immediately if symptoms(flare, irritate) occur.
- Remove contaminated clothing, shoes and isolate.
- Wash thoroughly after handling.
- Wear gloves when washing the patient, and please avoid contact with contaminated clothing.

#### C. Inhalation contact

- Take specific treatment if needed.
- When exposed to large amounts of steam and mist, move to fresh air.
- Get medical attention immediately.
- If breathing is stopped or irregular, give artificial respiration and supply oxygen.

#### D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- Get medical attention immediately.
- If swallowed, large amounts of water to drink and do not induce vomiting.

#### 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.
- If exposed or concerned, get medical attention/advice.

### 5. FIREFIGHTING MEASURES

#### A. Suitable (Unsuitable) extinguishing media

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

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

- Causes skin irritation
- May be fatal if swallowed and enters airways
- May cause cancer
- May cause drowsiness and dizziness.

#### C. Special protective actions for firefighters

- Avoid inhalation of materials or combustion by-products.
- Cool containers with water until well after fire is out.
- Do not approach the tank surrounded by fire until it is extinguished.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Keep unauthorized personnel out.

### 6. ACCIDENTAL RELEASE MEASURES

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

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Move container to safe area from the leak area.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.

#### B. Environmental precautions

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

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

- Appropriate container for disposal of spilled material collected.
- Dike for later disposal.
- Disposal of waste shall be in compliance with the Wastes Control Act
- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.

### 7. HANDLING AND STORAGE

#### A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Avoid direct physical contact.
- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.

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

- Avoid direct sunlight.
- Check regularly for leaks.
- Do not apply any physical shock to container.
- Do not apply direct heat.
- Do not use damaged containers.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### A. Exposure limits

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

#### B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

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

- Respiratory protection
  - Any air-purifying respirator with a full facepiece and an organic vapor canister.
  - Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
  - Any chemical cartridge respirator with organic vapor cartridge(s).
  - Consider warning properties before use.
  - 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.
  - Respiratory protection is ranked in order from minimum to maximum.
  - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Eye protection
  - Provide an emergency eye wash station and quick drench shower in the immediate work area.
  - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Hand protection
  - Wear appropriate chemical resistant glove.
- Skin protection
  - Wear appropriate chemical resistant protective clothing.
- Others
  - Not available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance	
- Appearance	Liquid
- Color	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	> 120°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)	0.860
O. Partition coefficient of n-octanol/water	Not Available
P. Autoignition temperature	Not Available
Q. Decomposition temperature	Not Available
R. Viscosity	7.2 cSt at 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 : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with incompatible materials and condition.

### 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
  - May be fatal if swallowed and enters airways
- Oral
  - Not available
- Eye-Skin
  - Causes skin irritation

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

- Acute toxicity
  - \* Oral
    - Product (ATEmix) : >5000mg/kg
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rat (Read-across CAS No. 64742-56-9) (OECD TG 401, GLP) (ECHA)
    - [Polybutylene] : LD50 > 10000 mg/kg bw Rat No death, Not classified (ECHA)
    - [Distillates (petroleum), hydrotreated light] : LD50 > 5000 mg/kg Rat (OECD TG 420, GLP) (Read-across CAS No. 68333-23-3) (ECHA)

\* Dermal

- Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
- [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rabbit (Read-across CAS No. 64742-56-9) (OECD TG 402, GLP) (ECHA)
- [Polybutylene] : LD50 > 2000 mg/kg bw Rat No death, Not classified (Read-across 540-84-1) (ECHA)
- [Distillates (petroleum), hydrotreated light] : LD50 > 2000 mg/kg Rabbit Not classified (OECD TG 402, GLP) (Read-across CAS No. 68333-23-3) (ECHA)

\* Inhalation

- Product (ATEmix) : Not available
- [Distillates (petroleum), hydrotreated heavy paraffinic] : Aerosol LC50 > 5.53 mg/L 4 hr Rat (Read-across CAS No. 64741-88-4) (OECD TG 403) (ECHA)
- [Polybutylene] : Vapour LC50 > 19.171 mg/L 4hr (Read-across Diisobutylene) Rat No death, Not classified (ECHA)
- [Distillates (petroleum), hydrotreated light] : Vapor LC50 > 5.28 mg/L 4 hr No death Not classified (OECD TG 403, GLP) (Read-across CAS No. 8008-20-6) (ECHA)

Skin corrosion/irritation

- Causes skin irritation

Serious eye damage/irritation

- Not available

Respiratory sensitization

- Not available

Skin sensitization

- Not available

Carcinogenicity

\* IARC

- Not available

\* OSHA

- Not available

\* ACGIH

- Not available

\* NTP

- Not available

\* EU CLP

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc. 1B (Note L)

Germ cell mutagenicity

- Not available

Reproductive toxicity

- Not available

STOT-single exposure

- May cause drowsiness and dizziness.

STOT-repeated exposure

- Not available

Aspiration hazard

- May be fatal if swallowed and enters airways

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

Fish

- [Distillates (petroleum), hydrotreated heavy paraffinic] : LL50 > 100 mg/L 96 hr Pimephales promelas (Read-across)

(OECD TG 203, GLP) (ECHA)

- [Polybutylene] : LC50 > 1.55 mg/L 96hr *Cyprinus carpio* (Read-across 68514-35-2) (ECHA)

- [Distillates (petroleum), hydrotreated light] : LL50 2 ~ 5 mg/L 96 hr *Oncorhynchus mykiss* (OECD TG 203, GLP) (ECHA)

○ Crustaceans

- [Distillates (petroleum), hydrotreated heavy paraffinic] : EL50 > 10000 mg/L 48 hr *Daphnia magna* (Read-across), NOEL 10 mg/L 21 d *Daphnia magna* (Read-across 64742-53-6) (OECD TG 211, GLP) (ECHA) (ECHA)

- [Polybutylene] : EC50 > 100 mg/L 48hr *Daphnia magna* (Read-across 97280-83-6) (ECHA)

- [Distillates (petroleum), hydrotreated light] : EL50 1.4 mg/L 48 hr *Daphnia magna* (OECD TG 202, GLP) (ECHA)

○ Algae

- [Distillates (petroleum), hydrotreated heavy paraffinic] : NOEL > 100 mg/L 72 hr (Read-across CAS No. 72623-87-1) (OECD TG 201) (ECHA)

- [Polybutylene] : EC50 > 19.2 mg/L 72hr, NOEC 19.2 mg/L 72 hr *Desmodesmus subspicatus* (ECHA)

- [Distillates (petroleum), hydrotreated light] : EL50 1 ~ 3 mg/L 48 hr *Raphidocelis subcapitata* (OECD TG 201, GLP) (ECHA)

## B. Persistence and degradability

○ Persistence

- [Polybutylene] : log Kow 7.6 ~ 7.8 (20 °C) (Read-across 97280-83-6) (ECHA)

○ Degradability

- Not available

## C. Bioaccumulative potential

○ Bioaccumulative potential

- [Distillates (petroleum), hydrotreated light] : BCF 130 ~ 159 (*Jordanella floridae*(Fish, fresh water), 1mg/l) (IUCLID)

○ Biodegradation

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Not readily biodegradable, 31 % 28 d (O2 consumption) (Read-across) (OECD TG 301 F, GLP) (ECHA)

- [Polybutylene] : 3% 28d (O2 consumption) No biodegradation observed (Read-across 91052-99-2) (ECHA)

## D. Mobility in soil

- Not available

## E. Other adverse effects

- Not available

## 13. DISPOSAL CONSIDERATIONS

### A. Disposal methods

- It shall be treated by incineration

- Oil water separation technology shall be applied as pre-waste treatment if it is applicable

- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them

### B. Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act

- Dispose of waste in accordance with all applicable laws and regulations.

## 14. TRANSPORT INFORMATION

### A. UN No. (IMDG CODE/IATA DGR)

- Not applicable

### B. Proper shipping name

- Not applicable

### C. Hazard Class

- Not applicable

#### D. IMDG CODE/IATA DGR Packing group

- Not applicable

#### E. Marine pollutant

- Not applicable

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

- Air transport(IATA): Not subject to IATA regulations.
- 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
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
  - [Polybutylene] : Not applicable
  - [Distillates (petroleum), hydrotreated light] : Not applicable
- Information of EU Classification
  - \* Classification
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : H350
    - [Distillates (petroleum), hydrotreated light] : H304
- 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

- 2018-10-10

C. Revision number and Last date revised

- 4 times, 2025-06-16

D. Other

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