

SAFETY DATA SHEET

XTeer HD 6000 20W50

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1. IDENTIFICATION

A. Product name

- XTeer HD 6000 20W50

B. Recommended use and restriction on use

- General use
- Restriction on use : Not available

C. Manufacturer / Supplier / Distributor information

- Company name
- : Hyundai Oilbank Co., Ltd.
- : 20F, Yonsei Severance Bldg., Tongil-ro 10-gil, Jongno-gu, Seoul, Korea

: Automotive Engine Oil

- Address - Dept.
- : Production&Technology Team
- Telephone number : 02-2004-3000
- Emergency telephone : 02-2004-3000 number

2. HAZARD IDENTIFICATION

A. GHS Classification

- Skin corrosion/irritation : Category2

B. GHS label elements

○ Hazard symbols



○ Signal words

- Warning
- Hazard statements
 - H315 Causes skin irritation
- **O Precautionary statements**
 - 1) Prevention
 - P264 Wash hands thoroughly after handling.
 - 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
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- 3) Storage
 - Not applicable
- 4) Disposal
 - Not applicable

C. Other hazards which do not result in classification : (NFPA Classification)

○ NFPA grade (0 ~ 4 level)

- Health : 2, Flammability : 1, Reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
Distillates (petroleum), hydrotreated heavy paraffinic	-	64742-54-7	75~85
Additive mixture (S1)	-	-	10~15
Additive mixture (S2)	-	-	5~10
Additive mixture (S3)	-	-	0.1~1

4. FIRST AID MEASURES

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

B. Skin contact

- Flush skin with plenty of wter 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 firestation and inform the location of the fire and characteristics hazard.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
- 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.
- Must work against the wind, let the upwind people to evacuate.
- Do not touch spilled material. Stop leak if you can do it without risk.
- Move container to safe area from the leak area.
- 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

- Avoid contact with incompatible materials.
- 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

- Check regularly for leaks.
- Do not apply direct heat.
- Keep in the original container.
- Prevent static electricity and keep away from combustible materials or heat sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

○ ACGIH TLV

- [Distillates (petroleum), hydrotreated heavy paraffinic] : TWA 5 mg/m3, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
- \bigcirc 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

O 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 vaporcartridge(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 selfcontained 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.

\bigcirc Hand protection

- Wear appropriate glove.

\bigcirc Skin protection

- Wear appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- \bigcirc Others
 - Not available

A. Appearance		
- Appearance	Liquid	
- Color	Clear brown	
B. Odor	Mild	
C. Odor threshold	No data available	
D. pH	Not available	
E. Melting point/Freezing point	No data available	
F. Initial Boiling Point/Boiling Ranges	Not available	
G. Flash point	> 200 °C	
H. Evaporation rate	No data available	
I. Flammability(solid, gas)	No data available	
J. Upper/Lower Flammability or explosive limits	No data available	
K. Vapour pressure	No data available	
L. Solubility	No data available	
M. Vapour density	No data available	
N. Specific gravity(Relative density)	0.876	
O. Partition coefficient of n-octanol/water	No data available	
P. Autoignition temperature	No data available	
Q. Decomposition temperature	No data available	
R. Viscosity	154.3 cSt at 40℃, 17.43 cSt at 100℃	
S. Molecular weight	No data 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

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A. Information on the likely routes of exposure
      ○ (Respiratory tracts)
         - Not available
      ○ (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 - ATE MIX : >5000mg/kg
            - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 15000 mg/kg Rat
         * Dermal - ATE MIX : >5000mg/kg
            - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rabbit
         * Inhalation - ATE MIX : 2.0mg/L~10.0mg/L
            - [Distillates (petroleum), hydrotreated heavy paraffinic] : Mist LC50 = 2.18 mg/\ell 4 hr Rat
      ○ Skin corrosion/irritation
         - Causes skin irritation
      ○ Serious eye damage/irritation
         - Not available
      O Respiratory sensitization
         - Not available
      ○ Skin sensitization
         - Not available
      ○ Carcinogenicity
         * IARC
            - Not available
         * OSHA
            - Not available
         * ACGIH
            - [Distillates (petroleum), hydrotreated heavy paraffinic] : A4
         * NTP
            - Not available
         * EU CLP
            - [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc.1B
      ○ Germ cell mutagenicity
         - Not available
      O Reproductive toxicity
         - Not available
      ○ STOT-single exposure
         - Not available
      ○ STOT-repeated exposure
         - Not available
      O Aspiration hazard
         - Not available
12. ECOLOGICAL INFORMATION
   A. Ecotoxicity
      \bigcirc Fish
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- [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 > 5000 mg/l 96 hr Oncorhynchus mykiss

○ Crustaceans

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

⊖ Algae

- [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 > 1000 mg/ℓ 96 hr Scenedesmus subspicatus

B. Persistence and degradability

○ Persistence

- [Distillates (petroleum), hydrotreated heavy paraffinic] : log Kow = 3.9 ~ 6 (Estimates)
- Degradability
 - Not available

C. Bioaccumulative potential

- Bioaccumulative potential
 - Not available

O Biodegration

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Biodegradability = 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 heavy paraffinic] : Carc. Cat. 2; R45 * Risk Phrases - [Distillates (petroleum), hydrotreated heavy paraffinic] : R45 * Safety Phrase - [Distillates (petroleum), hydrotreated heavy 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 **O** Rotterdam Convention listed ingredients - Not applicable **O Stockholm Convention listed ingredients** - Not applicable **O 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

- 2016-06-22

C. Revision number and Last date revised

- 2 times, 2016-07-19

D. Other

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