

SAFETY DATA SHEET

XTeer ATF Multi-V

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1. IDENTIFICATION

A. Product name

- XTeer ATF Multi-V

B. Recommended use and restriction on use

- General use : 자동차용 자동변속기 오일
 - 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 corrosion/irritation : Category2

B. GHS label elements

○ Hazard symbols



○ Signal words

- Warning

○ Hazard statements

- H315 Causes skin irritation

○ 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	Emulsifiable oil	64742-54-7	80~90
영업비밀2	-	-	7~15
영업비밀3	-	-	1~5

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.
- Wash contaminated clothing thoroughly before re-using.
- 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

- Please be advised by doctor whether induction of vomit is demanded or not.
- 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

- Keep unauthorized personnel out.
- Notify your local firestation and inform the location of the fire and characteristics hazard.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- 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.
- Remove all sources of ignition.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- 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

- Wash thoroughly after handling.
- Avoid contact with incompatible materials.
- Operators should wear antistatic footwear and clothing.
- Do not inhale the steam prolonged or repeated.

B. Conditions for safe storage, including any incompatibilities

- Check regularly for leaks.
- Do not use damaged containers.
- Do not apply direct heat.
- Store according to current laws and regulations
- Keep in the original container.

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)
- [영업비밀2] : Not available
- [영업비밀3] : Not available

○ OSHA PEL

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
- [영업비밀2] : Not applicable
- [영업비밀3] : 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

- 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	Clear Red liquid
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	197 °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)	Not available
O. Partition coefficient of n-octanol/water	Not available
P. Autoignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	35.76 cSt at 40°C, 6.98 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 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)**
 - 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 (ECHA)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
 - * **Dermal**
 - Product (ATEmix) : >5000mg/kg
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 >5000 mg/kg Rabbit (ECHA)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
 - * **Inhalation**
 - Product (ATEmix) : Not available
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 >5.53 mg/l 4 hr Rat (ECHA)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
- Skin corrosion/irritation**
 - Causes skin irritation
- Serious eye damage/irritation**
 - Not available
- Respiratory sensitization**
 - Not available
- Skin sensitization**
 - Not available
- Carcinogenicity**
 - * **IARC**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
 - * **OSHA**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
 - * **ACGIH**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
 - * **NTP**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available

* EU CLP

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc. 1B (Note L)
- [영업비밀2] : Not available
- [영업비밀3] : Not available
- **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 heavy paraffinic] : LC50 5000 mg/l 96 hr *Oncorhynchus mykiss* (IUCLID)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
- **Crustaceans**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 mg/l 48 hr *Daphnia magna* (IUCLID)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
- **Algae**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 mg/l 96 hr *Scenedesmus subspicatus* (IUCLID)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available

B. Persistence and degradability

- **Persistence**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : log Kow = 3.9 ~ 6 (Estimate)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
- **Degradability**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available

C. Bioaccumulative potential

- **Bioaccumulative potential**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available
- **Biodegradation**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Biodegradability = 6 (%) 28 day (Aerobic, Domestic wastewater, does not decompose easily)
 - [영업비밀2] : Not available
 - [영업비밀3] : Not available

D. Mobility in soil

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Not available
- [영업비밀2] : Not available
- [영업비밀3] : Not available

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS**A. Disposal methods**

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, 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 dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- 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

- 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
- Air transport(IATA): Not subject to IATA regulations.

15. REGULATORY INFORMATION**A. National and/or international regulatory information****○ POPs Management Law**

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
- [영업비밀2] : Not applicable
- [영업비밀3] : Not applicable

○ Information of EU Classification*** Classification**

- [Distillates (petroleum), hydrotreated heavy paraffinic] : H350
- [영업비밀2] : Not applicable
- [영업비밀3] : Not applicable

○ U.S. Federal regulations

- * OSHA PROCESS SAFETY (29CFR1910.119)

- [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
- [영업비밀2] : Not applicable
- [영업비밀3] : Not applicable
- * **CERCLA Section 103 (40CFR302.4)**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- * **EPCRA Section 302 (40CFR355.30)**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- * **EPCRA Section 304 (40CFR355.40)**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- * **EPCRA Section 313 (40CFR372.65)**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- **Rotterdam Convention listed ingredients**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- **Stockholm Convention listed ingredients**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : Not applicable
- **Montreal Protocol listed ingredients**
 - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
 - [영업비밀2] : Not applicable
 - [영업비밀3] : 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

- 2019-07-29

C. Revision number and Last date revised

- 1 times, 2019-07-29

D. Other

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