

# SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200  
**XTeer HD 6000 CH-4 20W-50 (ENG)**

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Revision date: Not applicable

Version: 2.0

## 1. IDENTIFICATION

### A. Product name

- XTeer HD 6000 CH-4 20W-50 (ENG)

### B. Recommended use and restriction on use

- General use : Automotive Engine oil
- Restriction on use : Do not use for purposes other than recommended.

### C. Manufacturer / Supplier / Distributor information

#### o 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 : 02-500-4500

#### o Supplier/Distributor information

- Company name : HD HYUNDAI OILBANK
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## 2. HAZARD IDENTIFICATION

### A. GHS Classification

- Acute aquatic toxicity : Category3

### B. GHS label elements

#### o Hazard symbols

Not applicable

#### o Signal words

- Not applicable

#### o Hazard statements

- H402 Harmful to aquatic organisms.

#### o Precautionary statements

##### 1) Prevention

- P273 Avoid release to the environment.

##### 2) Response

- Not applicable

##### 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

- 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 | 84 ~ 89    |

|                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |       |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|
| Distillates (petroleum), hydrotreated light paraffinic                                  | Mineral oil, petroleum distillates, hydrotreated (severe) light paraffinic                                                                                                                                                                                                                                                                                                                                                                                           | 64742-55-8 | 6 ~ 8 |
| Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs. | Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs.                                                                                                                                                                                                                                                                                                                                                                          | 84605-20-9 | 1 ~ 2 |
| Calcium carbonate                                                                       | Carbonic acid calcium salt (1:1); Calcite; Limestone; Marble;                                                                                                                                                                                                                                                                                                                                                                                                        | 471-34-1   | 1~ 2  |
| Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts                            | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts; Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts; PHOSPHORODITHIOIC ACID, O,O-DI(C1-14)-ALKYL ESTERS ZINC SALT; DI-C1-14 ALKYL DITHIOPHOSPHORIC ACID, ZINC SALT; PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS,ZINC SALTS; Dialkyl(C1-C14)dithiophosphoric acid, zinc salt; Phosphorodithioic acid, O,O-di-C1-14-alkyl ester, zinc salt; Zinc, O,O-di(C1-14)-alkylphosphorodithioate; | 68649-42-3 | ~ 1   |
| Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased                        | Dodecylphenol, calcium salt, overbased, sulfurized, carbonated                                                                                                                                                                                                                                                                                                                                                                                                       | 68784-26-9 | ~ 1   |
| Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts                          | Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 70024-69-0 | ~ 1   |
| N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene                       | Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68411-46-1 | ~ 1   |
| Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based                  | Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 72623-87-1 | ~ 0.1 |
| Distillates (petroleum), solvent-dewaxed light paraffinic                               | Solventdewaxed light paraffinic distillate (petroleum)                                                                                                                                                                                                                                                                                                                                                                                                               | 64742-56-9 | ~ 0.1 |
| N-Phenylbenzenamine                                                                     | Benzenamine, N-phenyl-; N-Phenylbenzenamine; N-Phenylaniline; Amino diphenyl; Anilinobenzene; Benzene, (phenylamino)-; N,N-Diphenylamine;                                                                                                                                                                                                                                                                                                                            | 122-39-4   | ~ 0.1 |

#### 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.

##### C. Inhalation contact

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

##### 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

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

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

- Harmful to aquatic organisms.

### 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

- o **ACGIH TLV**
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
  - [Distillates (petroleum), hydrotreated light paraffinic] : TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
  - [Distillates (petroleum), solvent-dewaxed light paraffinic] : TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter(Mineral oil, Pure, highly and severely refined)
  - [N-Phenylbenzenamine] : TWA, 10 mg/m<sup>3</sup>
- o **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

#### o 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.

#### o 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.

#### o Hand protection

- Wear appropriate chemical resistant glove.

#### o Skin protection

- Wear appropriate chemical resistant protective clothing.

#### o Others

- Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                 |                   |
|-------------------------------------------------|-------------------|
| A. Appearance                                   |                   |
| - Appearance                                    | Liquid            |
| - Color                                         | Clear brown       |
| B. Odor                                         | Mild              |
| C. Odor threshold                               | No data available |
| D. pH                                           | No data 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)           | 0.867             |
| O. Partition coefficient of n-octanol/water     | No data available |
| P. Autoignition temperature                     | No data available |
| Q. Decomposition temperature                    | No data available |
| R. Viscosity                                    | 18.9 cSt at 100°C |
| 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 : 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**
  - Not available
- **Oral**
  - Not available
- **Eye/Skin**
  - Not available

### 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)
- [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 5000 mg/kg Rat (GLP, ECHA)
- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : LD50 > 5000 mg/kg Rat
- [Calcium carbonate] : LD50 6450 mg/kg Rat (IUCLID)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Rat LD50>5000 mg/kg bw OECD 401 GLP (ECHA)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : Rat LD50> 10000 < 20000 mg/kg bw (ECHA)
- [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : LD50 > 5000 mg/kg Rat (OECD TG 401) (ECHA)
- [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : LD50 >5000 mg/kg Rat (Read-across Cas No. 64742-56-9) (OECD TG 401, GLP) (ECHA)
- [Distillates (petroleum), solvent-dewaxed light paraffinic] : LD50 > 5000 mg/kg Rat (ECHA)
- [N-Phenylbenzenamine] : 50 mg < LD50 <= 300 mg/kg (NIER), LD50 600 mg/kg Rat (ECHA, HSDB)

##### \* Dermal

- Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
- [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 >5000 mg/kg Rabbit (ECHA)
- [Distillates (petroleum), hydrotreated light paraffinic] : LD50 > 5000 mg/kg Rabbit (GLP, ECHA)
- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : LD50 > 2000 mg/kg Rat
- [Calcium carbonate] : LD50 > 2000 mg/kg Rat (OECD TG 402, GLP) (ECHA)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Rabbit LD50>4000mg/kg bw no death OECD 402 GLP (ECHA)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : LD50 >4000 mg/kg Rabbit (ECHA)
- [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : LD50 > 2000 mg/kg Rat (OECD TG 402) (ECHA)
- [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : LD50 >5000 mg/kg Rabbit (Read-across Cas No. 64742-56-9) (OECD TG 402, GLP) (ECHA)
- [Distillates (petroleum), solvent-dewaxed light paraffinic] : LD50 > 2000 mg/kg Rabbit (OECD Guideline 402 (Acute Dermal Toxicity),GLP) (ECHA)

##### \* Inhalation

- Product (ATEmix) : 2.0mg/L 4hr < ATEmix <= 10.0mg/L 4hr
- [Distillates (petroleum), hydrotreated heavy paraffinic] : Aerosol LC50 > 5.53 mg/L 4 hr, Rat, Read-across : CAS No. 64741-88-4 (ECHA)
- [Distillates (petroleum), hydrotreated light paraffinic] : LC50 >5.53 mg/ℓ 4 hr Rat (ECHA)
- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : gas (Not applicable: Liquid)
- [Calcium carbonate] : Aerosol LC50 >3 mg/L 4 hr Rat No death Not classified (ECHA)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Rat LC50>1.67 mg/L air /1hr (: 0.84 mg/L air/4hr) OECD 403 GLP no death (ECHA)
- [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : Aerosol LC50 > 5.53 mg/ℓ 4hr No death Not classified (Read-across Cas No. 64741-88-4) (OECD TG 403, GLP) (ECHA)
- [Distillates (petroleum), solvent-dewaxed light paraffinic] : Aerosol LC50 2.18 mg/ℓ 4 hr Rat (OECD TG 403, GLP) (ECHA)
- [N-Phenylbenzenamine] : 0.5 mg/L < LC50 <=1.0 mg/L (NIER)

#### ○ Skin corrosion/irritation

- Not available

#### ○ Serious eye damage/irritation

- Not available

#### ○ Respiratory sensitization

- Not available
- **Skin sensitization**
  - Not available
- **Carcinogenicity**
  - \* **IARC**
    - Not available
  - \* **OSHA**
    - Not available
  - \* **ACGIH**
    - [N-Phenylbenzenamine] : A4
  - \* **NTP**
    - Not available
  - \* **EU CLP**
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc. 1B (Note L)
    - [Distillates (petroleum), hydrotreated light paraffinic] : Carc. 1B (Note L)
    - [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : Carc. 1B (Note L)
    - [Distillates (petroleum), solvent-dewaxed light paraffinic] : Carc. 1B (Note L)
- **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] : LL50 > 100 mg/L, 96hr, Pimephales promelas (ECHA)
  - [Distillates (petroleum), hydrotreated light paraffinic] : LC50 5000 mg/ℓ 96 hr Oncorhynchus mykiss (IUCLID)
  - [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : LC50 1000 mg/ℓ 96 hr (OECD 203, GLP) (EPA HPVIS)
  - [Calcium carbonate] : LC50 >56000 mg/L 96 hr (ECOTOX)
  - [Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts] : LC50 1 ~ 5 mg/ℓ 96 hr Pimephales promelas (ESIS)
  - [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Pimephales promelas 96hr LL50>=1000 mg/L OECD 203 GLP (ECHA)
  - [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : Cyprinodon variegatus 96hr LL50>10000 mg/L OECD 203 GLP (read across:70024-71-4) (ECHA)
  - [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : LC50 > 100 mg/L 96hr Danio rerio (OECD TG 203) (ECHA)
  - [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : LL50 > 100 mg/ℓ 96 hr Pimephales promelas (OECD TG 203, GLP) (ECHA)
  - [Distillates (petroleum), solvent-dewaxed light paraffinic] : LC50 5000 mg/ℓ 96 hr Oncorhynchus mykiss (IUCLID)
- **Crustaceans**
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : EL50 > 10000 mg/L, 48hr, Daphnia magna (ECHA)
  - [Distillates (petroleum), hydrotreated light paraffinic] : EC50 1000 mg/ℓ 48 hr Daphnia magna (IUCLID)
  - [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : LC50 1000 mg/ℓ 48 hr (GLP) (EPA HPVIS)
  - [Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts] : EC50 1 ~ 1.5 mg/ℓ 48 hr Daphnia magna (ESIS)
  - [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Daphnia magna 48hr EL50>1000 mg/L OECD 202 GLP (ECHA)
  - [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : Daphnia magna 48hr EC50>1000 mg/L GLP (read across:115733-09-0) (ECHA)
  - [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : EC50 51mg/L 48 hr Daphnia magna (OECD TG 202, GLP) (ECHA)
  - [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : EL50 > 10000 mg/ℓ 48 hr Daphnia magna (OECD 1G 202) (ECHA)
  - [Distillates (petroleum), solvent-dewaxed light paraffinic] : EC50 1000 mg/ℓ 48 hr Daphnia magna (IUCLID)
  - [N-Phenylbenzenamine] : EC50 2 mg/ℓ 48 hr Daphnia magna(OECD TG 202, GLP)(ECHA)
- **Algae**

- [Distillates (petroleum), hydrotreated heavy paraffinic] : EC25 1152.9 mg/L, 96hr, Pseudokirchneriella subcapitata, NOEL >= 100 mg/L, 72hr (ECHA)
- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : ErC50 510 mg/l 96 hr (GLP) (EPA HPVIS)
- [Calcium carbonate] : EC50 > 14 mg/L 72 hr, NOEC 14 mg/L 72 hr Desmodesmus subspicatus (ECHA)
- [Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts] : EC50 1 ~ 5 mg/l 96 hr Selenastrum capricornutum (ESIS)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Selenastrum capricornutum 96hr EL50>500 mg/L OECD 201 GLP (ECHA)
- [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : EC50 > 100 mg/L 72 hr Desmodesmus subspicatus (OECD TG 201) (ECHA)
- [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : NOEL ≥ 100 > 100 mg/l 72 hr Raphidocelis subcapitata (OECD TG 201) (ECHA)
- [N-Phenylbenzenamine] : ErC50 0.56 mg/l / 2 hr (NITE), EC50 2.1 / mg/l / 2 hr / 1Fr (Pseudokirchneriella subcapitata, OECD TG 201, GLP)(ECHA)

## B. Persistence and degradability

### o Persistence

- [Distillates (petroleum), hydrotreated heavy paraffinic] : log Pow = 1.99 ~ 18.02 (20 °C) (ECHA)
- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : log Kow -3.19 (Estimate)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : log Kow 9.5 (ECHA)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : 10.8 qsar (ECHA)
- [Distillates (petroleum), solvent-dewaxed light paraffinic] : log Kow 3.9 ~ 6 (Estimate)
- [N-Phenylbenzenamine] : 3.84 log Kow (at 20.2 °C)(ECHA)

### o Degradability

- [Distillates (petroleum), solvent-dewaxed light paraffinic] : (non-degradable, BIOWIN 1,2,5,6,7) (Estimate)

## C. Bioaccumulative potential

### o Bioaccumulative potential

- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : BCF 3.162 (Estimate)
- [Calcium carbonate] : BCF 3.162 (Estimate)
- [Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts] : BCF 3.162 (Estimate)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : BCF=2.2
- [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : BCF 411 L/kg 42d Read-across Cas No. 27177-41-9 (ECHA)
- [Distillates (petroleum), solvent-dewaxed light paraffinic] : BCF 5151 (L/kg wet-wt ) (Estimate)
- [N-Phenylbenzenamine] : BCF 253 (NITE)

### o Biodegradation

- [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : 16 (%) 28 day (OECD 301B,US EPA)
- [Calcium carbonate] : 90 % 28 d Readily biodegradable (ECHA)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : 4.7-10.8%/28 days (ECHA)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : 8%, 28 days (ECHA)
- [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : Non biodegradation, 0 % degradation (CO2 evolution) (OECD TG 301 B, GLP) (ECHA)
- [N-Phenylbenzenamine] : 26 % 28 day (OECD Guideline 301 D)(ECHA)

## D. Mobility in soil

- [Calcium carbonate] : Koc 4.971 (estimate)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Koc 361500000000 (Estimate)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : Koc 170600000000 (Estimate)

## E. Other adverse effects

- [Distillates (petroleum), hydrotreated light paraffinic] : fish: NOEC (Fathead Minnow) >5000 mg/L/7days (IUCLID)
- [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : W/S : >= 0.082 mg/L (ECHA) Algae Selenastrum capricornutum 96hr NOELR=500 mg/L OECD 201 GLP (ECHA)
- [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : W/S : <= 0.0176 g/L at 20 °C (ECHA) Algae Selenastrum capricornutum 72hr NOEC=1000 mg/L EPA OTS 797.1050 GLP (read across:115733-09-0) (ECHA)
- [N-Phenylbenzenamine] : Algae(Pseudokirchneriella subcapitata) NOEC, 72h, =0.37 mg/L, OECD TG 201, GLP (ECHA)

## 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**

- o **POPs Management Law**
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : Not applicable
  - [Distillates (petroleum), hydrotreated light paraffinic] : Not applicable
  - [Polyethylenepolyamines reaction products with succinic anhydride polyisobutenyl derivs.] : Not applicable
  - [Calcium carbonate] : Not applicable
  - [Phosphorodithioic acid O,O-dialkyl(C=1-14) esters zinc salts] : Not applicable
  - [Dodecyl phenol, sulfurized, carbonates, calcium salts, overbased] : Not applicable
  - [Benzenesulfonic acid monoalkyl(C=16-24) derivs., calcium salts] : Not applicable
  - [N-Phenylbenzenamine reaction products with 2,4,4-trimethylpentene] : Not applicable
  - [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : Not applicable
  - [Distillates (petroleum), solvent-dewaxed light paraffinic] : Not applicable
  - [N-Phenylbenzenamine] : Not applicable
- o **Information of EU Classification**
  - \* **Classification**
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : H350
    - [Distillates (petroleum), hydrotreated light paraffinic] : H350
    - [Lubricating oils (petroleum), (C=20-50) hydrotreated neutral oil-based] : H350
    - [Distillates (petroleum), solvent-dewaxed light paraffinic] : H350
    - [N-Phenylbenzenamine] : H301,H311,H373,H400,H410
- o **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)**
  - [N-Phenylbenzenamine] : 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

- 2016-06-22

### C. Revision number and Last date revised

- Not applicable

### D. Other

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