

# SAFETY DATA SHEET

Revision date: 2015-10-01 Version: LP2307.3

### 1. IDENTIFICATION

A. Product name : XZIC CVTF MULTI

B. Recommended use and restriction on use

- General use : - Restriction on use : :

C. Manufacturer / Supplier / Distributor information

O Manufacturer information

- Company name

SK Enmove Co., Ltd.

- Address

: 26, Jong-ro, Jongno-gu, Seoul, Korea

- Dept.

- Telephone number :

- Emergency telephone number

: 1899-1147

- Fax number : - E-mail address : :

O Supplier/Distributer information

- Company name

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# 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Not applicable

# B. GHS label elements

O Hazard symbols

- Not applicable

O Signal words
None

O Hazard statements

None

O Precautionary statements

1) Prevention

None

2) Response

None

3) Storage

None

4) Disposal

None

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

O NFPA grade (0 ~ 4 level)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	%[weight]
Additive mixture	-	-	7.0 ~ 15.0
Distillates (petroleum), hydrotreated heavy paraffinic	Emulsifiable oil	64742-54-7	32.0 ~ 37.0
Distillates (petroleum), hydrotreated light paraffinic	Mineral oil, petroleum distillates, hydrotreated (severe) light paraffinic	64742-55-8	45.0 ~ 55.0

#### 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.

#### 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

- Move containers from fire area, if you can do without the risk.
- 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.
- Use appropriate extinguishing measure suitable for surrounding 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

- 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.

#### 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

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Refer to Engineering controls and personal protective equipment.
- Dealing only with a well-ventilated place.
- 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.
- No open fire.
- Prevent static electricity and keep away from combustible materials or heat sources.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### A. Exposure limits

O ACGIH TLV

O OSHA PEL

# 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 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.

# O Hand protection

- Wear appropriate glove.

# O Skin protection

- Wear appropriate clothing.

Others

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# A. Appearance

- Appearance : - Color : :

B. Odor : Oil and ether odor
C. Odor threshold : Not available
D. pH : Not available
E. Melting point/Freezing point : Not available
F. Initial Boiling Point/Boiling Ranges : 260 °C ~ 550 °C
G. Flash point : 180 °C

H. Evaporation rate: Not availableI. Flammability(solid, gas): Not availableJ. Upper/Lower Flammability or explosive limits: Not availableK. Vapour pressure:  $\leq 0.1 \,\mathrm{kPa}$  (20 °C)

L. Solubility : When mixed with water, it forms a milky emulsion.

M. Vapour density $: \ge 5$  (Air = 1)N. Specific gravity(Relative density): 0.855O. Partition coefficient of n-octanol/water: Not availableP. Autoignition temperature: Not availableQ. Decomposition temperature: Not available

R. Viscosity : Approximately 7.17 cSt (100°C)

S. Molecular weight :

# 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
  - O (Oral)
    - Not available
  - $\bigcirc$  (Eye·Skin)
    - Not available
    - Not available
- B. Delayed and immediate effects and also chronic effects from short and long term exposure
  - O Acute toxicity
    - \* Oral
    - \* Dermal
    - \* Inhalation
  - O Skin corrosion/irritation
    - Not available
  - O Serious eye damage/irritation
    - Not available
  - O Respiratory sensitization
    - Not available
  - O Skin sensitization
    - Not available
  - Carcinogenicity
    - \* IARC
    - \* OSHA
    - \* ACGIH
    - \* NTP
    - \* EU CLP
  - O Germ cell mutagenicity
    - Not available
  - O Reproductive toxicity

- Not available
- O STOT-single exposure
  - Not available
- O STOT-repeated exposure
  - Not available
- O Aspiration hazard
  - Not available

#### 12. ECOLOGICAL INFORMATION

- A. Ecotoxicity
  - O Fish
  - O Crustaceans
  - Algae
- B. Persistence and degradability
  - O Persistence
  - Degradability
- C. Bioaccumulative potential
  - O Bioaccumulative potential
  - Biodegration
- 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.
- Incinerate the oil by separating the oil and water
- The remainder of the water after separation will be processed in a water pollution prevention facilities.
- $\hbox{-} \hbox{Do incineration or stabilization of the residue after disposal as the method of evaporation and concentration.} \\$
- Do incineration of the residue after disposal as the method of agglomeration and precipitation.
- Take care of incinerate or stabilization after treatment, purified by means of
- Separation & #8226 distillation & #8226 extractio & #8226 filtration & #8226 pyrolysis

#### 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 CODE/IATA DGR)

- Not available
- B. Proper shipping name
  - Not available
- C. Hazard Class
  - Not available

## D. IMDG CODE/IATA DGR Packing group

- Not available

#### E. Marine pollutant

# 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
  - O POPs Management Law
  - O Information of EU Classification
    - \* Classification
  - O U.S. Federal regulations
    - \* OSHA PROCESS SAFETY (29CFR1910.119)
    - \* CERCLA Section 103 (40CFR302.4)
    - \* EPCRA Section 302 (40CFR355.30)
    - \* EPCRA Section 304 (40CFR355.40)
  - \* EPCRA Section 313 (40CFR372.65)

    O Rotterdam Convention listed ingredients
  - O Stockholm Convention listed ingredients
  - O Montreal Protocol listed ingredients

#### 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

2015-06-19

#### C. Revision number and Last date revised

Revision number: 3

Last date revised: 2015-10-01

D. Other