

# SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

## ROSE HP-BA64065

Date of issue: 2022-11-03

Revision date: Not applicable

Version: 1.0

### 1. IDENTIFICATION

#### A. Product name

- ROSE HP-BA64065

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

- General use : Fragrance for consumer product.
- Restriction on use : Do not use it other than intended use.

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

##### o Manufacturer information

- Company name : Hanbit Flavor & Fragrance Co., Ltd
- Address : 67 Daesosandan-ro, Daeso-Myeon, Eumseong-Gun, Chungbuk, Korea
- Emergency telephone number : 043-537-0527

##### o Supplier/Distributor information

- Company name : Hanbit Flavor & Fragrance Co., Ltd
- Address : 67 Daesosandan-ro, Daeso-Myeon, Eumseong-Gun, Chungbuk, Korea
- Emergency telephone number : 043-537-0527

### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

- Flammable liquids : Category4
- Acute toxicity (oral) : Category5
- Acute toxicity (dermal) : Category5
- Acute toxicity (inhalation: vapor) : Category4
- Skin corrosion/irritation : Category2
- Serious eye damage/irritation : Category2
- Acute aquatic toxicity : Category3

#### B. GHS label elements

##### o Hazard symbols



##### o Signal words

- Warning

##### o Hazard statements

- H227 Combustible liquid
- H303 May harmful if swallowed.
- H313 May be harmful if contact with skin.
- H315 Causes skin irritation
- H332 Harmful if inhaled
- H402 Harmful to aquatic organisms.

##### o Precautionary statements

###### 1) Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

## 2) Response

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P312 IF ON SKIN: Call a POISON CENTER/doctor if you feel unwell.
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash before reuse.
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).

## 3) Storage

- P403 Store in a well-ventilated place.

## 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(%) |
|-----------------------|---|------------|------------|
| PHENYL ETHYL ALCOHOL  | Phenethyl alcohol ; Phenylethyl alcohol ; 2-Phenylethane-1-ol ; Benzeneethanol ; 2-Phenylethanol ; b-Phenylethylalcohol ; PHENYLETHYL ALCOHOL ; PHENYLETHANOL ; b-PHENYLETHYL ALCOHOL ; (2-Hydroxyethyl)benzene ; | 60-12-8    | 70-75      |
| CITRONELLYL ACETATE   | Citronellyl acetate   | 150-84-5   | 5-10       |
| GERANYL ACETATE       | Geranyl acetate   | 105-87-3   | 1-5        |
| DIMETHYL OCTANOL      | 1-Octanol,3,7-dimethyl-   | 106-21-8   | 1-5        |
| ALPHA-IONONE          | alpha-Ionone  | 127-41-3   | 1-5        |
| DIPHENYL OXIDE        | 1,1'-Oxybis[benzene]  | 101-84-8   | 1-5        |
| ROSE OXIDE INACTIVE   | 4-Methyl-2-(2-methyl-1-propenyl)-tetrahydro-2H-pyran  | 16409-43-1 | 1-5        |
| LIGUSTRAL(VERGUSTRAL) | Ligustral   | 68039-49-6 | 1-5        |
| PHENYL ACETALDEHYDE   | 1,1-Dimethoxy-2-phenylethane  | 101-48-4   | 1-5        |
| PHENYL ETHYL ACETATE  | Benzylcarbonyl acetate  | 103-45-7   | 1-5        |
| ACETYL ISOEUGENOL     | -   | 93-29-8    | 0.1-1      |
| CIS-3-HEXENOL         | CIS-3-HEXENOL   | 928-96-1   | 0.1-1      |
| ALPHA-DAMASCONE       | (E)-alpha-damascone   | 24720-09-0 | 0.1-1      |
| STYRALLYL ACETATE     | Styralyl acetate  | 93-92-5    | 0.1-1      |
| INDOLE                | 2,3-Benzopyrrole  | 120-72-9   | 0.01-0.1   |

### 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.
- Go to the hospital immediately if symptoms(flare, irritate) occur.
- Remove contact lenses if worn.

#### 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

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

#### **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**

- Causes skin irritation
- Combustible liquid
- Harmful if inhaled
- Harmful to aquatic organisms.
- May be harmful if contact with skin.

#### **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**
  - [DIPHENYL OXIDE] : TWA 1 ppm (7 mg/m<sup>3</sup>) STEL 2 ppm (14 mg/m<sup>3</sup>)
- **OSHA PEL**
  - [DIPHENYL OXIDE] : 1 ppm, 7 mg/m<sup>3</sup>

### 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   | COLORLESS ~ SLIGHTLY YELLOW |
| B. Odor   | Characteristic              |
| 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                                  | > 85°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                                   | Soluble in alcohol          |

|   |               |
|---|---------------|
| M. Vapour density                           | Not available |
| N. Specific gravity(Relative density)       | 0.990±0.010   |
| O. Partition coefficient of n-octanol/water | Not available |
| P. Autoignition temperature                 | Not available |
| Q. Decomposition temperature                | Not available |
| R. Viscosity                                | Not available |
| 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**
  - Not available
- **Oral**
  - May harmful if swallowed.
- **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) : 2000mg/kg < ATEmix <= 5000mg/kg
- [PHENYL ETHYL ALCOHOL] : LD50 2230 mg/kg Rat
- [CITRONELLYL ACETATE] : LD50 6800 mg/kg Rat(NLM;ChemIDPlus, TOMES;Loli)
- [GERANYL ACETATE] : LD50 6330 mg/kg Rat(NLM, THOMSON)
- [DIMETHYL OCTANOL] : LD50 > 5,000 mg/kg Rat (NLM, RTECS)
- [DIPHENYL OXIDE] : LD50 2830 mg/kg Rat (ECHA)
- [ROSE OXIDE INACTIVE] : LD50 >2000 mg/kg Rat ((OECD TG 401, GLP), ECHA)
- [PHENYL ACETALDEHYDE D.M.A] : LD50 3500 mg/kg Rat (NLM;ChemIDplus, TOMES;LOLI)
- [PHENYL ETHYL ACETATE] : LD50 3670 mg/kg Rat (TOMES)
- [ACETYL ISOEUGENOL] : LD50 3450 mg/kg Rat (NLM; ChemIDPlus)
- [CIS-3-HEXENOL] : LD50 4700 mg/kg Rat
- [STYRALLYL ACETATE] : LD50 > 5000 mg/kg Rat
- [INDOLE] : LD50 1000 mg/kg Rat

##### \* Dermal

- Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
- [PHENYL ETHYL ALCOHOL] : LD50 5000 mg/kg Rabbit
- [DIMETHYL OCTANOL] : LD50 2,400 mg/kg Rabbit (NLM, RTECS)
- [DIPHENYL OXIDE] : LD50 > 7940 mg/kg Rabbit (ChemIDplus)
- [PHENYL ACETALDEHYDE D.M.A] : LD50 2000 mg/kg Rabbit (NLM;ChemIDplus, TOMES;LOLI)
- [PHENYL ETHYL ACETATE] : LD50 6120 mg/kg Rabbit (TOMES)

- [ACETYL ISOEUGENOL] : LD50 > 5000 mg/kg Rabbit
- [CIS-3-HEXENOL] : LD50 > 5000 mg/kg Rabbit
- [STYRALLYL ACETATE] : LD50 > 5000 mg/kg Rabbit
- [INDOLE] : LD50 790 mg/kg Rabbit (4days)
- \* **Inhalation**
  - Product (ATEmix) : 0.5mg/L < ATEmix <= 2.0mg/L
  - [PHENYL ETHYL ALCOHOL] : dust LC50 >4.63 mg/l 4 hr Rat
  - [PHENYL ETHYL ACETATE] : Mist LC50 > 0.5 mg/L Rat (TOMES)
  - [ACETYL ISOEUGENOL] : gas (Not applicable: Solid)
- o **Skin corrosion/irritation**
  - Causes skin irritation
- o **Serious eye damage/irritation**
  - Not available
- o **Respiratory sensitization**
  - Not available
- o **Skin sensitization**
  - Not available
- o **Carcinogenicity**
  - \* **IARC**
    - Not available
  - \* **OSHA**
    - Not available
  - \* **ACGIH**
    - Not available
  - \* **NTP**
    - Not available
  - \* **EU CLP**
    - Not available
- 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**
  - [PHENYL ETHYL ALCOHOL] : LC50 220 ~ 460 mg/l 96 hr Leuciscus idus ( DIN 38412, IUCLID)
  - [CITRONELLYL ACETATE] : LC50 0.926 mg/l 96 hr (Estimate)
  - [GERANYL ACETATE] : LC50 1.400 mg/l 96 hr (Estimate)
  - [DIMETHYL OCTANOL] : LC50 4.393 mg/l 96 hr (Estimate)
  - [ALPHA-IONONE] : LC50 1.697 mg/l 96 hr (Estimate)
  - [DIPHENYL OXIDE] : LC50 4.2 mg/l 96 hr Oncorhynchus mykiss (ECHA)
  - [ROSE OXIDE INACTIVE] : LC50 >100 mg/l 96 hr Cyprinus carpio (ECHA)
  - [LIGUSTRAL(VERGUSTRAL)] : LC50 2.82 mg/l 96 hr (Estimate)
  - [PHENYL ETHYL ACETATE] : LC50 12.315 mg/l 96 hr (Estimate)
  - [ACETYL ISOEUGENOL] : LC50 7.666 mg/l 96 hr (Estimate)
  - [CIS-3-HEXENOL] : LC50 381 mg/l 96 hr Pimephales promelas (ECOTOX)
  - [ALPHA-DAMASCONE] : LC50 3.481 mg/l 96 hr (Estimate)
  - [STYRALLYL ACETATE] : LC50 11.582 mg/l 96 hr (Estimate)
  - [INDOLE] : LC50 ≥77.938 mg/l 96 hr (Estimate)
- o **Crustaceans**

- [PHENYL ETHYL ALCOHOL] : EC50 287.17 mg/ℓ 48 hr Daphnia magna (IUCLID)
- [CITRONELLYL ACETATE] : LC50 0.818 mg/ℓ 48 hr (Estimate)
- [GERANYL ACETATE] : LC50 0.863 mg/ℓ 48 hr (Estimate)
- [DIMETHYL OCTANOL] : LC50 3.157 mg/ℓ 48 hr (Estimate)
- [ALPHA-IONONE] : EC50 1.292 mg/ℓ 48 hr (Estimate)
- [DIPHENYL OXIDE] : EC50 1.96 mg/ℓ 48 hr Daphnia magna (ECHA)
- [ROSE OXIDE INACTIVE] : EC50 >100 mg/ℓ 48 hr Daphnia magna (ECHA)
- [LIGUSTRAL(VERGUSTRAL)] : LC50 2.97 mg/ℓ 48 hr (Estimate)
- [PHENYL ETHYL ACETATE] : LC50 39.508 mg/ℓ 48 hr (Estimate)
- [ACETYL ISOEUGENOL] : EC50 15.147 mg/ℓ 48 hr Daphnia magna
- [CIS-3-HEXENOL] : LC50 180.137 mg/ℓ 48 hr (Estimate)
- [ALPHA-DAMASCONE] : LC50 1.134 mg/ℓ 48 hr (Estimate)
- [STYRALLYL ACETATE] : LC50 22.324 mg/ℓ 48 hr (Estimate)
- [INDOLE] : LC50 1 mg/ℓ 48 hr Daphnia magna (ECOTOX)

○ **Algae**

- [PHENYL ETHYL ALCOHOL] : EC50 490 mg/ℓ 72 hr Scenedesmus subspicatus (test method DIN 38412) (IUCLID)
- [CITRONELLYL ACETATE] : EC50 0.443 mg/ℓ 96 hr (Estimate)
- [GERANYL ACETATE] : EC50 0.122 mg/ℓ 96 hr (Estimate)
- [DIMETHYL OCTANOL] : EC50 3.056 mg/ℓ 96 hr (Estimate)
- [ALPHA-IONONE] : EC50 1.428 mg/ℓ 96 hr (Estimate)
- [DIPHENYL OXIDE] : EC50 0.455 mg/ℓ 72 hr Pseudokirchnerella subcapitata (ECHA)
- [ROSE OXIDE INACTIVE] : EC50 > 100 mg/ℓ 72 hr Other(water solubility < 0.2 mg/L at 19.5°C at pH 7.5) (ECHA)
- [LIGUSTRAL(VERGUSTRAL)] : EC50 5.5 mg/ℓ 96 hr (Estimate)
- [PHENYL ACETALDEHYDE D.M.A] : EC50 37.912 mg/ℓ 96 hr (Estimate)
- [PHENYL ETHYL ACETATE] : EC50 1.001 mg/ℓ 96 hr (Estimate)
- [ACETYL ISOEUGENOL] : EC50 9.783 mg/ℓ 96 hr (Estimate)
- [CIS-3-HEXENOL] : EC50 110.117 mg/ℓ 96 hr (Estimate)
- [ALPHA-DAMASCONE] : EC50 1.055 mg/ℓ 96 hr (Estimate)
- [STYRALLYL ACETATE] : EC50 9.018 mg/ℓ 96 hr (Estimate)
- [INDOLE] : EC50 52.541 mg/ℓ 96 hr (Estimate)

## B. Persistence and degradability

○ **Persistence**

- [PHENYL ETHYL ALCOHOL] : log Kow 1.36
- [CITRONELLYL ACETATE] : log Kow 4.56 (Estimate)
- [DIMETHYL OCTANOL] : log Kow 3.64 (Estimate)
- [ALPHA-IONONE] : log Kow 3.85 (NLM)
- [DIPHENYL OXIDE] : log Kow 4.21 (ECHA)
- [LIGUSTRAL(VERGUSTRAL)] : log Kow = 2.85 (Estimate)
- [PHENYL ACETALDEHYDE D.M.A] : log Kow 1.93 (Estimate)
- [PHENYL ETHYL ACETATE] : log Kow 2.30 (ChemIDplus)
- [ACETYL ISOEUGENOL] : log Kow 2.99 (Estimate)
- [CIS-3-HEXENOL] : log Kow 1.61 (NLM)
- [ALPHA-DAMASCONE] : log Kow = 4.29 (Estimate)
- [STYRALLYL ACETATE] : log Kow 2.50 (Estimate)
- [INDOLE] : log Kow 2.14

○ **Degradability**

- [INDOLE] : 49.5%, 5 days (theoretical BOD) (HSDB)

## C. Bioaccumulative potential

○ **Bioaccumulative potential**

- [PHENYL ETHYL ALCOHOL] : BCF 6 (HSDB)
- [CITRONELLYL ACETATE] : BCF 474.4 (Estimate)
- [GERANYL ACETATE] : BCF 1500 (HSDB)
- [DIMETHYL OCTANOL] : BCF 3.162 (Estimate)
- [ALPHA-IONONE] : BCF 161.1 (Estimate)
- [DIPHENYL OXIDE] : BCF 200 (ECHA)

- [LIGUSTRAL(VERGUSTRAL)] : BCF = 35.47 (Estimate)
- [PHENYL ACETALDEHYDE D.M.A] : BCF 8.725
- [ACETYL ISOEUGENOL] : BCF 43.3 (Estimate)
- [CIS-3-HEXENOL] : BCF 3.454 (Estimate)
- [ALPHA-DAMASCONE] : BCF = 316.3 (Estimate)
- [STYRALLYL ACETATE] : BCF 20.68 (Estimate)
- [INDOLE] : BCF 25 (estimate) (HSDB)

#### o Biodegradation

- [PHENYL ETHYL ALCOHOL] : BOD 87%, 2weeks (MITI test) (HSDB)
- [CITRONELLYL ACETATE] : Considered non-biodegradable since there is no degradable data
- [DIMETHYL OCTANOL] : (Cut-off value = 0.4784 ; Non-degradable(BIOWIN 5)) (estimate)
- [ALPHA-IONONE] : (Cut-off value=0.1303; Non-degradable(BIOWIN 2))
- [DIPHENYL OXIDE] : 76 % 20 day (ECHA)
- [PHENYL ACETALDEHYDE D.M.A] : not degraded and has a high potential to accumulate in vivo
- [ACETYL ISOEUGENOL] : Non-biodegradable; not degraded and has a high potential to accumulate in vivo (estimate)
- [CIS-3-HEXENOL] : 87 (%) 4 week (Estimate)
- [STYRALLYL ACETATE] : (Cut-off value=0.5995; rapidly biodegradable(BIOWIN5)) (Estimate)

### D. Mobility in soil

- [CITRONELLYL ACETATE] : Koc 2409 (Estimates, Can be adsorbed in the soil)
- [DIMETHYL OCTANOL] : Koc 336.6 (Estimate)
- [ALPHA-IONONE] : Koc 3.25 (estimate)
- [LIGUSTRAL(VERGUSTRAL)] : Koc 187.2 (Estimate)
- [PHENYL ACETALDEHYDE D.M.A] : Koc 64.78 (Low potential for soil adsorption)
- [ACETYL ISOEUGENOL] : Koc 370.9  
(Low potential for soil adsorption, Estimates)
- [STYRALLYL ACETATE] : Koc 2.242

### 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**
  - [PHENYL ETHYL ALCOHOL] : Not applicable
  - [CITRONELLYL ACETATE] : Not applicable
  - [GERANYL ACETATE] : Not applicable
  - [DIMETHYL OCTANOL] : Not applicable
  - [ALPHA-IONONE] : Not applicable
  - [DIPHENYL OXIDE] : Not applicable
  - [ROSE OXIDE INACTIVE] : Not applicable
  - [LIGUSTRAL(VERGUSTRAL)] : Not applicable
  - [PHENYL ACETALDEHYDE D.M.A] : Not applicable
  - [PHENYL ETHYL ACETATE] : Not applicable
  - [ACETYL ISOEUGENOL] : Not applicable
  - [CIS-3-HEXENOL] : Not applicable
  - [ALPHA-DAMASCONE] : Not applicable
  - [STYRALLYL ACETATE] : Not applicable
  - [INDOLE] : Not applicable
- **Information of EU Classification**
  - \* **Classification**
    - Not applicable
- **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**

- 2022-11-03

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

- Not applicable

**D. Other**

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