

1. Identification

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|--|---|
| <p>A. Product name : YEGREENA CRYSTAL US (HARDENER)</p> <p>B. Recommended Use and Restriction on Use
 <input type="radio"/> General use : YEGREENA CRYSTAL US(HARDENER)
 <input type="radio"/> Restriction on use : Restricted to use other than recommended use</p> <p>C. Manufacturer / Supplier / distributor information
 <input type="radio"/> Company name : NOROO Paint & Coatings Co., Ltd.
 <input type="radio"/> Address : 351, Bakdal-ro, Manan-gu, Anyang-si, Gyeonggi-do, Korea
 <input type="radio"/> Emergency telephone number : +82-31-467-6114</p> | <p>D. AU Importer
 <input type="radio"/> Company name : Synergy Building Supplies
 <input type="radio"/> Address : 236 PLANET ST WELSHPOOL WA 6106
 <input type="radio"/> Emergency telephone number : 1300 655 853</p> |
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2. Hazard identification

- A. GHS Classification
- Serious eye damage/irritation Category 1
 - Acute toxicity (oral) Category 4
 - Acute toxicity (dermal) Category 4
 - Acute toxicity (inhalation: gas) Category 2
 - Germ cell mutagenicity Category 2
 - Serious eye damage/irritation Category 2A
 - Specific target organ toxicity(Repeated exposure) Category 2
 - Skin corrosion/irritation Category 2
 - Ozone layer hazard

- B. GHS label elements

- Hazard symbols



- Signal words : DANGER

- Hazard statements :

- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H330 Fatal if inhaled
- H341 Suspected of causing genetic defects
- H319 Causes serious eye irritation
- H373 Prolonged or repeated exposure may cause damage to the liver, testes, skin, respiratory system, blood and central nervous system of the body (Refer Section SDS 11)
- H315 Causes skin irritation
- H420 It destroys the upper layer of the ozone layer and is harmful to public health and environment.

- Precautionary statements

- Prevention

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P284 Wear respiratory protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P281 Use personal protective equipment as required.

- Response

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P322 Specific measures
- P363 Wash contaminated clothing before reuse.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P320 Specific treatment
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.

- Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- P405 Store locked up.
- Disposal
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulation
 - P502 Please refer to the information provided by the manufacturer / supplier on recycling and recycling examples.

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

Chemical Name	NFPA grade	Health	Flammability	Reactivity
Benzyl alcohol		2	1	0
Trade secret		NO DATA	NO DATA	NO DATA
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-		3	1	0
Fatty acids, tail oil compds. with polyalkylenepolyamines		1	1	0
Phenol		3	2	0

3. Composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS-NO	Content(%)
Benzyl alcohol	Benzyl alcohol	100-51-6	49-59
Trade secret	-	-	33-43
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-	2855-13-2	21-31
Fatty acids, tail oil compds. with polyalkylenepolyamines	Fatty acids, tail oil compds. with polyalkylenepolyamines	68911-35-3	1-10
Phenol	Phenol	108-95-2	1-10

4. First-aid measures

- A. Eye Contact : Do not rub your eyes. If you wear a contact lenses, remove them first. If irritation, pain, swelling, tears or glaring happens, take medical assistant immediately Flush exposed eyes with plenty of water for more than 15minutes.
- B. Skin Contact : Wear gloves while washing the patient and avoid contact with exposed clothes. Wash carefully after handling. If symptoms like redness or irritation occurs, take medical assistant immediately. Wash off with soap and water for more than 15 minutes. And take medical assistant immediately. If symptoms like irritation or pain occurs, take medical assistant immediately. Remove exposed clothing, and wash off exposed area with soap and water.
- C. Inhalation : Take a medical assistant immediately. Remove contaminated clothing and shoes, and isolate it. If hard to breathe, administering oxygen Perform the artificial respiration, using the pocket mask with one way valves or other respiratory medical devices. If inhaled or swallowed, do not perform the inhalation phase of breathing If not breathing, perform the artificial respiration. Avoid from exposure, and move into an area with fresh air.
- D. Ingestion Contact : Flush mouth with water immediately. It is need to be considered that early removal of some ingested material by gastric lavage must be weighed against potential complications of bleeding or perforation Take proper medical assistant by symptoms. If ingested large quantity, take medical assistant. Do not try to induce vomiting, if occurs, keep head below hips to prevent swallow into lungs. Inducing vomit.
- E. Notes to Physician : There is no specific antidote and take an appropriate medical treatment.

5. Fire-fighting measures

- A. Suitable (Unsuitable) extinguishing media
- Suitable extinguishing media : Powder extinguishing agent, gaseous Extinguishing Agent, and regular foam.
 - (Unsuitable) extinguishing media : Avoid extinguishing fire with halogenting agent. Avoid use waterjet as fire extinguishing agent. Water is not appropriate extinguishing agent
 - Case of big fire : Use appropriate protective device depend on the situation. Stay away more than 800m to avoid tank explosion. Spread large amount of the extinguishing agent as a mist form with staying against wind.
- B. Specific hazards arising from the chemical
- Pyrolysate : Irritating and highly toxic gases may produced during the combustion by pyrolysis or combustion itself. Carbon dioxide, toxic carbon compounds/Nitrogen compounds/sulfur compounds
 - Fire and Explosion danger : Vapor may be released to the ignition source and ignited. Aqueous (Exclude water-soluble one) products does not have risk of fire or explosion hazard by itself. Vapors may explode indoors, outdoors, and in drains Leakages may fire / explosion hazard and could be easily ignited by heat, sparks or flames. Container may explode when heating May form explosive mixture at or above ignition point Risk of medium-sized fire.
- C. Special protective actions for fire-fighters
- Personal Precautions, protective equipment : Gas mask or air respirator, heat resistant clothing, heat resistant helmet, heat resistant gloves, heat resistant boots
 - Emergency procedures : Do not approach if the tank is on fire. Avoid inhalation of the substance or combustion products. Use an unmanned fire extinguishing device, in case of large-sized fire. If not, leave it to burn. Tell the fire department, location of the fire and the hazardous features. Protect others from access and prohibit access to dangerous areas. Block the area except for the fire-suppression personnel. Cooling containers with water long time after extinguish fire. If there is no risk, moving containers away from fire. Use appropriate extinguishing agents to catch fire.

6. Accidental release measures

- A. Personal Precautions, protective equipment and emergency procedures
- Personal Precautions, protective equipment : Gas mask for organic gases, other appropriate protective device / clothing / gloves.

○ Emergency procedures : Do not contact on the bare skin Do work with the personal protected devices such as gas mask for organic gases other appropriate protective devices / clothing / gloves. Spray water to reduce amount of steam. Take an action to block the leakage if there is no risk.

B. Environmental precautions

- Atmosphere : Using local ventilation to Minimize the exposure to worker. Do install the local ventilations and full ventilation system
- Soil : Use absorbent to collect the appropriate container. Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.
- Under water : Collect spilled material with mechanic devices Use absorbent to collect the appropriate container.

C. Methods and materials for containment and cleaning up

- Small spill : Move to appropriate container for disposal of spilled material collected. Absorb for use sand or other non-combustible material.
- Large spill : Notify to central and local government, when emissions are above regulation. Prohibit access of unnecessary people, isolate hazard area to secure.

7. Handling and storage

A. Precautions for safe handling : Storing with combustible substances such as stained clothes or paper may cause fire by spontaneous ignition. Thus do not stack it, and keep it in a non-flammable container with cap filled with water and dispose it. Do not take contaminated clothings away from the work area. Avoid contact with heat, sparks, flames or other sources of ignition. Do not inhale vapor for long-term or repeatedly. Do not handle until read and understood all safety precautions. Avoid contact with prohibited materials in mixture. Wash carefully after handling. Use local ventilations and a full ventilation system when handling Seal the container for minimizing the petroleum steam Ground for preventing the static discharge Keep or handle followed by Dangerous goods Safety Management Act

B. Conditions for safe storage, including any incompatibilities : Storage temperature: 25 ~ 35 °C Storage temperature: 15 ~ 25 °C Storage temperature: 5 ~ 15 °C Store away from waterworks and sewers. Collect in an airtight container to dispose. Prevent static electricity and do not store near heat sources. Store in original container only. Store in accordance with all current law and regulations. Check periodically for leaks Store in a cool, dry, well-ventilated area. Stored in an isolated place, freezing caution, high temperature body caution. Avoid strong oxidizing agents, acid. Storage temperature: 5 ~ 35 °C Avoid direct sunlight while storing outdoor. Because of evaporation and contamination concerns, airtight the container and store in a well-ventilated building.

8. Exposure controls/personal protection

A. Exposure Limits

- Benzyl alcohol
 - ACGIH : NO DATA
 - Biological exposure indices : NO DATA
- Trade secret
 - ACGIH : NO DATA
 - Biological exposure indices : NO DATA
- Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - ACGIH : NO DATA
 - Biological exposure indices : NO DATA
- Fatty acids, tail oil compds. with polyalkylenepolyamines
 - ACGIH : NO DATA
 - Biological exposure indices : NO DATA
- Phenol
 - ACGIH : NO DATA
 - Biological exposure indices : NO DATA

B. Engineering Controls :

- ▷ Do install the local ventilations and full ventilation system
- ▷ Using local ventilation to Minimize the exposure to worker.
- ▷ NO DATA
- ▷ NO DATA

C. Personal Protective Equipment

- Respiratory protection : Respiratory protection is ranked in order from minimum to maximum Respiratory protection may be needed, while frequent use or heavy exposure. Consider warning properties before use. If there is possibility of direct contact or exposure to these substances should wear a authorized dust-proof mask or respirator for organic compounds Use the personal protect respirator for organic solvent or higher level of capacity when workers are supposed to be exposed under unsuitable respiratory working condition, or longer period exposure than standard level. Respirators should be authorized by Korea Occupational Safety and Health Agency
- Eye protection : If there is possibility of direct contact or exposure to these substances should wear authorized safty glasses or mask. Let workers do wear the safety glasses in case hazard caused by mist may be expected. Install washing facilities and an emergency washing facilities close to workplace. Use the respirator for organic solvent or higher level.
- Hand protection : Wear appropriate protective gloves If there is possibility of direct contact or exposure to these substances should wear authorized safety gloves for chemicals. Wear the chemical protective gloves Do the workers wear the impermeable protective gloves made from rubber/PVC due to skin irritation may be supposed by chronicle and long period exposure.
- Skin protection : Wear cleanroom garment or appropriate protective clothing to prevent contamination If there is a possibility of direct contact or exposure to the substance Wear protective clothing for chemical substances Wear appropriate chemical protective clothing. Work after wearing the impermeable protective apron made by rubber/PVC in case hazard caused by exposure or spill, wear the impermeable whole body protective clothing if needed.

9. Physical and chemical properties

- A. Appearance : Light yellow clear liquid
- B. Odor : Very light odor
- C. Odor threshold : NO DATA
- D. PH : NO DATA
- E. Melting point/Freezing point(°C) : NO DATA
- F. Initial Boiling Point/Boiling Ranges(°C) : NO DATA
- G. Flash point(°C) : 89
- H. Evaporating Rate : NO DATA
- I. Flammability(solid, gas)(°C) : NON Flammable
- J. Upper/Lower Flammability or explosive limits : NO DATA
- K. Vapour pressure : NO DATA
- L. Solubility : NO DATA
- M. Vapour density : NO DATA
- N. Specific gravity : 1.03±0.02
- O. Partition coefficient of n-octanol/water : NO DATA
- P. Autoignition temperature(°C) : NO DATA
- Q. Decomposition temperature(°C) : NO DATA
- R. Viscosity : 65 ~ 69KU
- S. Molecular weight : NO DATA

10. Stability and reactivity

- A. Chemical stability : NO DATA
- B. Possibility of hazardous reactions : Avoid contaminants and friction Do not contact with heat, spark, flame or other flammable sources
- C. Conditions to avoid : Oxidation agent, metal and combustible materials
- D. Hazardous decomposition products : Thermal decomposition products (carbon etc..)

11. Toxicological information

- A. Information on the likely routes of exposure
 - Respiratory tracts : Adverse lung effects, Dyspnoea, Hypothermia, Vomitting
 - Oral : Vomitting, Diarrhea, Stomach pain, Irregular heartbeat
 - Skin : Irritation, Burn, Adverse nerve effects
 - Eye : Irritation, eye damage
- B. Delayed and immediate effects and also chronic effects from short and long term exposure
 - Benzyl alcohol
 - Acute toxicity
 - Oral : LD50 = 1230 mg/kg Rat
 - Dermal : LD50 = 2000 mg/kg Rabbit
 - Inhalation : LD50 = 2000 mg/kg Rabbit
 - Skin corrosion/irritation : usually stimulus(100mg, 24H, rabbit)
 - Serious eye damage/irritation : Non-irritating(rabbit)
 - Respiratory sensitization : NO DATA
 - Skin sensitization : NO DATA
 - Carcinogenicity
 - IARC : NO DATA
 - OSHA : NO DATA
 - ACGIH : NO DATA
 - NTP : NO DATA
 - EU CLP : NO DATA
 - Germ cell mutagenicity : NO DATA
 - Reproductive toxicity : NO DATA
 - STOT-single exposure : NO DATA
 - STOT-repeated exposure : NO DATA
 - Aspiration hazard : NO DATA
 - Trade secret
 - Acute toxicity
 - Oral : NO DATA
 - Dermal : NO DATA
 - Inhalation : NO DATA
 - Skin corrosion/irritation : NO DATA
 - Serious eye damage/irritation : NO DATA
 - Respiratory sensitization : NO DATA
 - Skin sensitization : NO DATA
 - Carcinogenicity
 - IARC : NO DATA
 - OSHA : NO DATA

- ACGIH : NO DATA
- NTP : NO DATA
- EU CLP : NO DATA
- Germ cell mutagenicity : NO DATA
- Reproductive toxicity : NO DATA
- STOT-single exposure : NO DATA
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA
- Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - Acute toxicity
 - Oral : LD50 = 1030 mg/kg Rat
 - Dermal : NO DATA
 - Inhalation : NO DATA
 - Skin corrosion/irritation : NO DATA
 - Serious eye damage/irritation : Causticity(rabbit)
 - Respiratory sensitization : NO DATA
 - Skin sensitization : NO DATA
 - Carcinogenicity
 - IARC : NO DATA
 - OSHA : NO DATA
 - ACGIH : NO DATA
 - NTP : NO DATA
 - EU CLP : NO DATA
 - Germ cell mutagenicity : NO DATA
 - Reproductive toxicity : NO DATA
 - STOT-single exposure : NO DATA
 - STOT-repeated exposure : NO DATA
 - Aspiration hazard : NO DATA
- Fatty acids, tail oil compds. with polyalkylenepolyamines
 - Acute toxicity
 - Oral : NO DATA
 - Dermal : NO DATA
 - Inhalation : NO DATA
 - Skin corrosion/irritation : NO DATA
 - Serious eye damage/irritation : NO DATA
 - Respiratory sensitization : NO DATA
 - Skin sensitization : NO DATA
 - Carcinogenicity
 - IARC : NO DATA
 - OSHA : NO DATA
 - ACGIH : NO DATA
 - NTP : NO DATA
 - EU CLP : NO DATA
 - Germ cell mutagenicity : NO DATA
 - Reproductive toxicity : NO DATA
 - STOT-single exposure : NO DATA
 - STOT-repeated exposure : NO DATA
 - Aspiration hazard : NO DATA
- Phenol
 - Acute toxicity
 - Oral : LD50 317 mg/kg Rat
 - Dermal : LD50 670 mg/kg Rat
 - Inhalation : LD50 670 mg/kg Rat
 - Skin corrosion/irritation : Rabbit Skin corrosion, and as reported in humans.
 - Serious eye damage/irritation : Rabbits eyes appear in the full opacity of the cornea irritation test results.
 - Respiratory sensitization : NO DATA
 - Skin sensitization : Test using guinea pig negative result, the test results using a mouse negative
 - Carcinogenicity
 - IARC : Group 3
 - OSHA : NO DATA
 - ACGIH : A4
 - NTP : NO DATA
 - EU CLP : NO DATA
 - Germ cell mutagenicity : Chromosome aberration test positive
 - Reproductive toxicity : Chromosome aberration test positive
 - STOT-single exposure : NO DATA
 - STOT-repeated exposure : Increased mortality resulting from cardiovascular disease in humans, vomiting, diarrhea, abdominal pain, hemolytic anemia, methemoglobin hyperlipidemia, renal degeneration, tubular necrosis, nipple cells appear bleeding. Reduced number of red blood cells in laborat
 - Aspiration hazard : NO DATA

12. Ecological information

A. Ecotoxicity

- Benzyl alcohol
 - Fish : LC50 = 10 mg/ℓ 96 hr
 - Crustaceans : NO DATA
 - Algae : NO DATA
- Trade secret
 - Fish : NO DATA
 - Crustaceans : NO DATA
 - Algae : NO DATA

- Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - Fish : NO DATA
 - Crustaceans : EC50 = 17.4 mg/ℓ 48 hr
 - Algae : NO DATA
 - Fatty acids, tail oil compds. with polyalkylenepolyamines
 - Fish : NO DATA
 - Crustaceans : LC50 1.198 mg/ℓ 48 hr Daphnia magna (predicted)
 - Algae : EC50 0.899 mg/ℓ 96 hr (predicted)
 - Phenol
 - Fish : LC50 10.9 mg/ℓ 96 hr
 - Crustaceans : LC50 3.1 mg/ℓ 48 hr
 - Algae : EC50 370 mg/ℓ 96 hr
- B. Persistence and degradability
- Benzyl alcohol
 - Persistence : log Kow = 1.1
 - Degradability : NO DATA
 - Trade secret
 - Persistence : NO DATA
 - Degradability : NO DATA
 - Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - Persistence : NO DATA
 - Degradability : NO DATA
 - Fatty acids, tail oil compds. with polyalkylenepolyamines
 - Persistence : log Kow 3.72 (Estimates)
 - Degradability : NO DATA
 - Phenol
 - Persistence : log Kow 1.46
 - Degradability : NO DATA
- C. Bioaccumulative potential
- Benzyl alcohol
 - Bioaccumulative potential : NO DATA
 - Biodegradation : Biodegradability = 94 (%) 28 day (Aerobic, Activated Sludge)
 - Trade secret
 - Bioaccumulative potential : NO DATA
 - Biodegradation : NO DATA
 - Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - Bioaccumulative potential : NO DATA
 - Biodegradation : Biodegradability = 8 (%) 28 day (Aerobic, Mainly domestic wastewater)
 - Fatty acids, tail oil compds. with polyalkylenepolyamines
 - Bioaccumulative potential : BCF 343.2 (Estimates)
 - Biodegradation : NO DATA
 - Phenol
 - Bioaccumulative potential : NO DATA
 - Biodegradation : 85 (%)
- D. Mobility in soil
- Benzyl alcohol
 - ▷ NO DATA
 - Trade secret
 - ▷ NO DATA
 - Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - ▷ NO DATA
 - Fatty acids, tail oil compds. with polyalkylenepolyamines
 - ▷ NO DATA
 - Phenol
 - ▷ NO DATA
- E. Other adverse effects
- Benzyl alcohol
 - ▷ NO DATA
 - Trade secret
 - ▷ NO DATA
 - Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - ▷ NO DATA
 - Fatty acids, tail oil compds. with polyalkylenepolyamines
 - ▷ NO DATA
 - Phenol
 - ▷ NO DATA

13. Disposal considerations

A. Disposal methods : To prevent environmental pollution, dispose it to a licensed waste disposal company. Recycle the recyclable materials, such as organic solvents, and then incinerate the residue at high temperature. Pre-treat with oil-water separation method when it is available. Disposal material should keep in the airtight container, and consign according to Waste Material Management Act

B. Special precautions for disposal : Discard it followed by appropriate regulations Prohibit the unauthorized disposal and incineration due to adversely affect natural ecosystems

14. Transport information

A. UN number : Non regulated

- B. Proper shipping name : N/A
- C. Hazard class : Non dangerous goods
- D. Packing group : N/A
- E. Marine pollutant : N/A
- F. Special precautions for user related to transport or transportation measures
 - EmS FIRE SCHEDULE : N/A
 - EmS SPILLAGE SCHEDULE : N/A

15. Regulatory information

- Benzyl alcohol
 - Information of EU Classification
 - ▷ Classification : NO DATA
 - ▷ Risk Phrases : NO DATA
 - ▷ Safety Phrase : NO DATA
 - U.S. Federal regulations
 - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
 - ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
 - ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
 - ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
 - ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
 - Rotterdam Convention listed ingredients : NO DATA
 - Stockholm Convention listed ingredients : NO DATA
 - Montreal Protocol listed ingredients : NO DATA
- Trade secret
 - Information of EU Classification
 - ▷ Classification : NO DATA
 - ▷ Risk Phrases : NO DATA
 - ▷ Safety Phrase : NO DATA
 - U.S. Federal regulations
 - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : NO DATA
 - ▷ CERCLA Section 103 (40CFR302.4) : NO DATA
 - ▷ EPCRA Section 302 (40CFR355.30) : NO DATA
 - ▷ EPCRA Section 304 (40CFR355.40) : NO DATA
 - ▷ EPCRA Section 313 (40CFR372.65) : NO DATA
 - Rotterdam Convention listed ingredients : NO DATA
 - Stockholm Convention listed ingredients : NO DATA
 - Montreal Protocol listed ingredients : NO DATA
- Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-
 - Information of EU Classification
 - ▷ Classification : NO DATA
 - ▷ Risk Phrases : NO DATA
 - ▷ Safety Phrase : NO DATA
 - U.S. Federal regulations
 - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
 - ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
 - ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
 - ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
 - ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
 - Rotterdam Convention listed ingredients : NO DATA
 - Stockholm Convention listed ingredients : NO DATA
 - Montreal Protocol listed ingredients : NO DATA
- Fatty acids, tail oil compds. with polyalkylenepolyamines
 - Information of EU Classification
 - ▷ Classification : NO DATA
 - ▷ Risk Phrases : NO DATA
 - ▷ Safety Phrase : NO DATA
 - U.S. Federal regulations
 - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : NO DATA
 - ▷ CERCLA Section 103 (40CFR302.4) : NO DATA
 - ▷ EPCRA Section 302 (40CFR355.30) : NO DATA
 - ▷ EPCRA Section 304 (40CFR355.40) : NO DATA
 - ▷ EPCRA Section 313 (40CFR372.65) : NO DATA
 - Rotterdam Convention listed ingredients : NO DATA
 - Stockholm Convention listed ingredients : NO DATA
 - Montreal Protocol listed ingredients : NO DATA
- Phenol
 - Information of EU Classification
 - ▷ Classification : NO DATA
 - ▷ Risk Phrases : NO DATA
 - ▷ Safety Phrase : NO DATA
 - U.S. Federal regulations
 - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
 - ▷ CERCLA Section 103 (40CFR302.4) : 453.599 kg 1000 lb
 - ▷ EPCRA Section 302 (40CFR355.30) : pertinent
 - ▷ EPCRA Section 304 (40CFR355.40) : pertinent
 - ▷ EPCRA Section 313 (40CFR372.65) : pertinent
 - Rotterdam Convention listed ingredients : NO DATA

- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

16. Other information

A. Reference

This MSDS is based on 'Industrial safety and health' Act paragraph 41 and Proclamation of Ministry of Labor and Employment 2016-19, and considered domestic regulations.

This MSDS is based on KOSHA, NITE, ESIS, NLM, SIDS, IPCS, NCIS.

B. Issue date : 2017-08-07 오후 1:31:59

C. Revision number and Last date revised : 6.(2019-04-04 오전 10:54:25)

D. Other : " WWW.NOROO.CO.KR"