

## 1. Identification

- A. Product name : CLEANEPOXY DHDC-6400(S) (HARDENER)  
 Usage category : Oil paint
- B. Recommended Use and Restriction on Use  
 General use : for concrete  
 Restriction on use : Restricted to use other than recommended use
- C. Manufacturer / Supplier / distributor information  
 Company name : NOROO Paint & Coatings Co., Ltd.  
 Address : 351, Bakdal-ro, Manan-gu, Anyang-si, Gyeonggi-do, Korea  
 Emergency telephone number : +82-31-467-6114
- D. AU Importer  
 Company Name: Synergy Building Supplies  
 Address: 236 PLANET ST WELSHPOOL WA 6106  
 Emergency Telephone Number: 1300 655 853

## 2. Hazard identification

- A. GHS Classification  
Acute toxicity (inhalation: vapor) Category 4  
Carcinogenicity Category 2  
Reproductive toxicity Category 1B  
Serious eye damage/irritation Category 1  
Acute aquatic toxicity Category 1  
Chronic aquatic toxicity Category 1  
Serious eye damage/irritation Category 2A  
Skin corrosion/irritation Category 2  
Flammable liquids Category 4  
Acute toxicity (oral) Category 5  
Acute toxicity (dermal) Category 5

- B. GHS label elements  
 Hazard symbols



- Signal words : DANGER
- Hazard statements :
- H332 Harmful if inhaled
  - H351 Suspected of causing cancer
  - H360 May damage fertility or the unborn child
  - H318 Causes serious eye damage
  - H400 Very toxic to aquatic life
  - H410 Very toxic to aquatic life with long lasting effects
  - H319 Causes serious eye irritation
  - H315 Causes skin irritation
  - H227 Flammable liquid
  - H303 May be harmful if swallowed.
  - H313 May be harmful in contact with skin.
- Precautionary statements
- Prevention
    - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
    - P271 Use only outdoors or in a well-ventilated area.
    - P201 Obtain special instructions before use.
    - P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P273 Avoid release to the environment.  
 P264 Wash hands and contact areas thoroughly after handling.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. no smoking

- Response
  - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 Call a POISON CENTER or doctor/physician if you feel unwell.
  - P308+P313 If exposed or concerned: Get medical advice / attention.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - P391 Collect spillage.
  - P337+P313 If eye irritation persists, get medical attention / attention.
  - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
  - P321 Specific treatment
  - P332+P313 If skin irritation occurs: Get medical advice/attention.
  - P362+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).
- Storage
  - P405 Store by locking.
  - P403 Store in a well-ventilated place.
- Disposal
  - P501 Dispose of the contents and containers in accordance with waste-related laws.

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

Chemical Name	NFPA grade	Health	Flammability	Reactivity	GHS Classification
$\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]		3	1	0	H303, H313, H318, H410
Dodecylphenol, mixed isomers		NO DATA	NO DATA	NO DATA	H303, H313, H318, H360, H400, H410
2,4,6-Tris[(dimethylamino)methyl]phenol		3	1	0	H303, H313, H315, H319
2-Butoxyethanol		3	2	0	H227, H303, H313, H315, H319, H332

3. Composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS-NO	Content(%)
$\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]	$\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]	9046-10-0	46~56
Dodecylphenol, mixed isomers	Dodecylphenol, mixed isomers	27193-86-8	23~33
2,4,6-Tris[(dimethylamino)methyl]phenol	2,4,6-Tris[(dimethylamino)methyl]phenol	90-72-2	10~20
2-Butoxyethanol	2-Butoxyethanol	111-76-2	11~21

4. First-aid measures

- A. Eye Contact : Flush exposed eyes with plenty of water for more than 15minutes.  
If irritation, pain, swelling, tears or glaring happens, take medical assistant immediately  
Do not rub your eyes.  
If you wear a contact lenses, remove them first.
- B. Skin Contact : Remove exposed clothing, and wash off exposed area with soap and water .  
If symptoms like irritation or pain occurs, take medical assistant immediately.  
Wash off with soap and water for more than 15 minutes. And take medical assistant immediately.  
If symptoms like redness or irritation occurs, take medical assistant immediately.  
Wash carefully after handling.  
Wear gloves while washing the patient and avoid contact with exposed clothes.
- C. Inhalation : Avoid from exposure, and move into an area with fresh air .  
If not breathing, perform the artificial respiration.  
If inhaled or swallowed, do not perform the inhalation phase of breathing  
Perform the artificial respiration, using the pocket mask with one way valves or other respiratory medical devices.  
If hard to breathe, administering oxygen  
Remove contaminated clothing and shoes, and isolate it.  
Take a medical assistant immediately.
- D. Ingestion Contact : Please be advised by doctor whether induction of vomit is demanded or not.  
vomiting occurs, keep head below hips to prevent aspiration into lungs.  
If ingested large quantity, take medical assistant.  
Take proper medical assistant by symptoms.  
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  
Flush mouth with water immediately.
- E. Notes to Physician : Notify medical personnel of contaminated situations and have them take appropriate protective measures.
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## 5. Fire-fighting measures

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- A. Suitable (Unsuitable) extinguishing media
- Suitable extinguishing media : Powder extinguishing agent, gaseous Extinguishing Agent, and regular foam.
  - (Unsuitable) extinguishing media : Avoid digestion using direct water.  
Avoid use waterjet as fire extinguishing agent.  
Avoid extinguishing fire with halogenting agent.
  - Case of big fire : Spread large amount of the extinguishing agent as a mist form with staying against wind.  
Stay away more than 800m to avoid tank explosion.  
Use appropriate protective device depend on the situation.
- B. Specific hazards arising from the chemical
- Pyrolysate : Carbon dioxide, toxic carbon compounds/Nitrogen compounds/sulfur compounds  
Irritating and highly toxic gases may produced during the combustion by pyrolysis or combustion itself.
  - Fire and Explosion danger : Risk of medium-sized fire.  
Aqueous (Exclude water-soluble one) products does not have risk of fire or explosion hazard by itself.  
Vapor may be released to the ignition source and ignited.  
May form explosive mixture at or above ignition point  
Container may explode when heating  
Leakages may fire / explosion hazard and could be easily ignited by heat, sparks or flames.  
Vapors may explode indoors, outdoors, and in drains
- 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 : Use appropriate extinguishing agents to catch fire.  
If there is no risk, moving containers away from fire.  
Cooling containers with water long time after extinguish fire.

Block the area except for the fire-suppression personnel.  
Protect others from access and prohibit access to dangerous areas.  
Tell the fire department, location of the fire and the hazardous features.  
Use an unmanned fire extinguishing device, in case of large-sized fire. If not, leave it to burn.  
Avoid inhalation of the substance or combustion products.  
Do not approach if the tank is on fire.

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## 6. Accidental release measures

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- A. Personal Precautions, protective equipment and emergency procedures
- Personal Precautions, protective equipment : Appropriate protective equipment / protection / protective gloves
  - Emergency procedures : Take an action to block the leakage if there is no risk.  
Spray water to reduce amount of steam.  
The operator should wear appropriate protective equipment (see section "8. Exposure Protection and Personal Protection") to avoid contact with the eyes and skin and inhalation.
- B. Environmental precautions
- Atmosphere : Do install the local ventilations and full ventilation system  
Using local ventilation to Minimize the exposure to worker.
  - Soil : Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.  
Use absorbent to collect the appropriate container.
  - Under water : Use absorbent to collect the appropriate container.  
Collect spilled material with mechanic devices
- C. Methods and materials for containment and cleaning up
- Small spill : Absorb for use sand or other non-combustible material.  
Move to appropriate container for disposal of spilled material collected.
  - Large spill : Prohibit access of unnecessary people, isolate hazard area to secure.  
Notify to central and local government, when emissions are above regulation.
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## 7. Handling and storage

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- A. Precautions for safe handling : Keep or handle followed by Dangerous goods Safety Management Act  
Ground for preventing the static discharge  
Seal the container for minimizing the petroleum steam  
Use local ventilations and a full ventilation system when handling  
Wash carefully after handling.  
Avoid contact with prohibited materials in mixture.  
Do not handle until read and understood all safety precautions.  
Do not inhale vapor for long-term or repeatedly.  
Avoid contact with heat, sparks, flames or other sources of ignition.  
Do not take contaminated clothings away from the work area.  
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.
- B. Conditions for safe storage, including any incompatibilities : Because of evaporation and contamination concerns, airtight the container and store in a well-ventilated building.  
Avoid direct sunlight while storing outdoor.  
Storage temperature: 5 ~ 35 °C  
Avoid strong oxidizing agents, acid.  
Store at appropriate temperature according to the isolation location, freezing caution, high temperature body caution.  
No open fire.  
Store in a cool, dry, well-ventilated area.  
Check periodically for leaks  
Store in accordance with all current law and regulations.  
Store in original container only.

Prevent static electricity and do not store near heat sources.  
Collect in an airtight container to dispose.  
Store away from waterworks and sewers.

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## 8. Exposure controls/personal protection

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### A. Exposure Limits

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - ACGIH : NO DATA
  - Biological exposure indices : NO DATA
- Dodecylphenol, mixed isomers
  - ACGIH : NO DATA
  - Biological exposure indices : NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - ACGIH : NO DATA
  - Biological exposure indices : NO DATA
- 2-Butoxyethanol
  - ACGIH : TWA, 20 ppm (97 mg/m<sup>3</sup>)
  - Biological exposure indices : While urinating Butoxyacetic acid (BAA)(with hydrolysis) : 200 mg/g creatinine(After work)

### 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 : Respirators should be authorized by Korea Occupational Safety and Health Agency  
Unknown concentration or other life threatening danger is imminent: Supplied air respirator(Hybrid airline respirator), and Self contained breathing apparatus(full face)  
Consider warning properties before use.  
Respiratory protection may be needed, while frequent use or heavy exposure.  
Respiratory protection is ranked in order from minimum to maximum  
If there is possibility of direct contact or exposure to these substances should wear a authorized dust-proof mask or respirator for organic compounds
- Eye protection : Install washing facilities and an emergency washing facilities close to workplace.  
Let workers do wear the safety glasses in case hazard caused by mist may be expected.  
If there is possibility of direct contact or exposure to these substances should wear authorized safty glasses or mask.
- Hand protection : If there is possibility of direct contact or exposure to these substances should wear authorized safety gloves for chemicals.
- Skin protection : If there is a possibility of direct contact or exposure to the substance Wear protective clothing for chemical substances

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## 9. Physical and chemical properties

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- A. Appearance : Liquid
- B. Odor : Specific 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) : NON Flammable
- J. Upper/Lower Flammability or explosive limits : NO DATA
- K. Vapour pressure : NO DATA
- L. Solubility : Water Insoluble
- M. Vapour density : NO DATA
- N. Specific gravity : 1.0 ± 0.3
- O. Partition coefficient of n-octanol/water : NO DATA
- P. Autoignition temperature(°C) : NO DATA
- Q. Decomposition temperature(°C) : NO DATA
- R. Viscosity : NO DATA
- S. Molecular weight : NO DATA

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## 10. Stability and reactivity

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

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## 11. Toxicological information

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- 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
- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
    - Acute toxicity
      - Oral : LD50 = 242 mg/kg Rat
      - Dermal : LD50 = 360 mg/kg rabbit
      - Inhalation : LD50 = 360 mg/kg rabbit
    - Skin corrosion/irritation : In case of contact with skin may cause burns
    - Serious eye damage/irritation : Medium using rabbit eye irritation or irritation test results
    - 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 : Inhalation airway irritation
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA
- Dodecylphenol, mixed isomers
  - 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
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - Acute toxicity
    - Oral : LD50 = 1200 mg/kg Rat
    - Dermal : LD50 = 1280 mg/kg Rat
    - Inhalation : LD50 = 1280 mg/kg Rat
  - Skin corrosion/irritation : severe stimulus
  - Serious eye damage/irritation : Severe irritation
  - 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
- 2-Butoxyethanol
  - Acute toxicity
    - Oral : LD50 1414 mg/kg Guinea pig (OECD TG 401, GLP)
    - Dermal : LD50 >2000 mg/kg Rat (ECHA)
    - Inhalation : Vapor LC50 >7.4 mg/ℓ 7 hr Rat (ECHA)
  - Skin corrosion/irritation : As a result of skin irritation test using rabbits, it is erythema irritation 2, which is not applicable under the GHS standard, but it is sufficient to determine that it is irritating EU Method B.4 (ECHA)
  - Serious eye damage/irritation : Eye irritation test results showed conjunctival irritation index 2.6, iritis 0.56, conjunctival edema 1.8, indicating irritation OECD TG405, GLP (ECHA)
  - Respiratory sensitization : NO DATA
  - Skin sensitization : Skin sensitization test results using guinea pigs non-sensitization (OECD TG 406, ECHA)

- Carcinogenicity
  - IARC : Group 3
  - OSHA : NO DATA
  - ACGIH : A3
  - NTP : NO DATA
  - EU CLP : NO DATA
- Germ cell mutagenicity : Reverse mutation test using in vitro microorganisms OECD TG471, chromosomal abnormality test using mammalian cells OECD TG473 result negative, micronucleus test using mammalian bone marrow cells in vivo OECD TG474 result negative (ECHA)
- Reproductive toxicity : 2nd generation reproductive toxicity test (NTP) results, NOAEL (parental toxicity) = 720 mg/kg bw/day due to weight loss, fertility, etc., NOAEL (F1, F2) = 720 mg/kg bw/ due to weight loss of offspring day, no effect on reproductive toxicity was observed, developmental toxicity and teratogenic effects were not observed as a result of developmental toxicity test using rats (OECD TG414) NOAEL (development) = 100 mg/kg bw/day, NOAEL (teratogenicity) > 200 mg/kg bw/day (ECHA)
- STOT-single exposure : As a result of respiratory irritation test using mice, RD50 2818 ppm showed minimal or no sensory stimulation (ECHA)
- STOT-repeated exposure : As a result of a 90-day repeated oral toxicity test in rats, OECD TG408 showed some abnormalities in liver and cytoplasm in histopathological findings, but no adverse effects were observed. NOAEL male <69 mg/kg bw/day, NOAEL female <82 mg/kg bw/day 90-day inhalation repeat toxicity test using mice OECD TG413, GLP Results NOAEC <31ppm (ECHA)
- Aspiration hazard : NO DATA

## 12. Ecological information

### A. Ecotoxicity

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - Fish : NO DATA
  - Crustaceans : NO DATA
  - Algae : NO DATA
- Dodecylphenol, mixed isomers
  - Fish : NO DATA
  - Crustaceans : NO DATA
  - Algae : NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - Fish : LC50 = 447.821 mg/ l 96 hr
  - Crustaceans : LC50 = 28.198 mg/ l 48 hr
  - Algae : EC50 = 34.812 mg/ l 96 hr
- 2-Butoxyethanol
  - Fish : LC50 1474 mg/ l 96 hr *Oncorhynchus mykiss*(OECD Guideline 203)
  - Crustaceans : EC50 1800 mg/ l 48 hr *Daphnia magna*(OECD TG 202)
  - Algae : EC50 911 mg/ l 72 hr *Selenastrum capricornutum*(OECD TG 201)

### B. Persistence and degradability

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - Persistence : NO DATA
  - Degradability : NO DATA
- Dodecylphenol, mixed isomers
  - Persistence : NO DATA
  - Degradability : NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - Persistence : log Kow = 0.77
  - Degradability : NO DATA
- 2-Butoxyethanol
  - Persistence : 0.81 log Kow (25 ° C, pH=7, BASF standard method)
  - Degradability : NO DATA

### C. Bioaccumulative potential

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - Bioaccumulative potential : NO DATA
  - Biodegradation : NO DATA
- Dodecylphenol, mixed isomers
  - Bioaccumulative potential : NO DATA
  - Biodegradation : NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - Bioaccumulative potential : BCF = 3.162
  - Biodegradation : NO DATA
- 2-Butoxyethanol
  - Bioaccumulative potential : NO DATA
  - Biodegradation : 90.4 % 28 day (OECD TG 301G)

#### D. Mobility in soil

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - ▷ NO DATA
- Dodecylphenol, mixed isomers
  - ▷ NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - ▷ NO DATA
- 2-Butoxyethanol
  - ▷ NO DATA

#### E. Other adverse effects

- $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]
  - ▷ NO DATA
- Dodecylphenol, mixed isomers
  - ▷ NO DATA
- 2,4,6-Tris[(dimethylamino)methyl]phenol
  - ▷ NO DATA
- 2-Butoxyethanol
  - ▷ Fish Danio rerio: NOEC14d>100 mg/L OECD TG 204, Crustacean Daphnia magna: NOEC21d=100 mg/L OECD TG 211 (ECHA)

### 13. Disposal considerations

A. Disposal methods : Disposal material should keep in the airtighted container, and consign according to Waste Mateial Management Act

Pre-treat with oil-water separation method when it is available.

Recycle the recycleable materials, such as organic solvents, and then incinerate the residue at high temperature.

To prevent environmental pollution, dispose it to a licensed waste disposal company.

B. Special precautions for disposal : Bussiness that discharge business waste shall process them selves, or delegate to waste treatment processor, recycler, or waste treatment operator.

Dispose of waste in accordance with all applicable laws and regulations.

### 14. Transport information

A. UN number(IMDG CODE/IATA DGR) : 2735

B. Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
( $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)])

C. Hazard class : 8

D. Packing group(IMDG CODE/IATA DGR) : III

E. Marine pollutant : be applicable

F. Special precautions for user related to transport or transportation measures

Local transport follows in accordance with Dangerous goods Safety Management

Package and transport follow in accordance with Department of Transportation

○ EmS FIRE SCHEDULE : F-A

○ EmS SPILLAGE SCHEDULE : S-B

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## 15. Regulatory information

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○  $\alpha$ -(2-Aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)]

- 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

○ Dodecylphenol, mixed isomers

- 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

○ 2,4,6-Tris[(dimethylamino)methyl]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) : 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

○ 2-Butoxyethanol

- 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

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## 16. Other information

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### 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 : 2003-04-15

C. Revision number and Last date revised : 11.(2024-02-05)

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