1. Identification

A. Product name : ANYTANE 2740 (HARDENER)
○ Usage category : Oil paint

B. Recommended Use and Restriction on Use
○ General use : Urethane HARDENER
○ 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

2. Hazard identification

A. GHS Classification
Flammable liquids Category 3
Acute toxicity (inhalation: vapor) Category 4
Acute Toxicity (Inhalation: dust / mist) Category 4
Carcinogenicity Category 2
Reproductive toxicity Category 2
Serious eye damage/irritation Category 2A
Specific target organ toxicity(Single exposure) Category 3 (respiratory irritation)
Specific target organ toxicity(Repeated exposure) Category 2
Skin sensitization Category 1
Skin corrosion/irritation Category 2
Aspiration hazard Category 1
Acute toxicity (oral) Category 5
Acute toxicity (dermal) Category 5

B. GHS label elements
○ Hazard symbols



○ Signal words : DANGER
○ Hazard statements :
H226 Flammable liquid and vapour
H332 Harmful if inhaled
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H319 Causes serious eye irritation
H335+H336 May cause respiratory irritation, May cause drowsiness and dizziness.
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)
H317 May cause an allergic skin reaction
H315 Causes skin irritation
H304 May be fatal if swallowed and enters airways
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
○ Precautionary statements
- Prevention
P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. no smoking
P223 Do not contact with water
P240 Ground container and receiving equipment
P241 Use explosion-proof equipment (electricity, ventilation, lighting, etc.)
P242 Use only non-sparking tools. Flammable liquids (chapter 2.6) 1, 2, 3
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P264 Wash hands and contact areas thoroughly after handling.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
- Response
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).
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.
P337+P313 If eye irritation persists, get medical attention / attention.
P314 Get medical advice/attention if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment
P362+P364 Take off contaminated clothing and wash before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

- Storage
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Save by locking.
P403+P233 Store in a well-ventilated place. Keep container tightly closed

- 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)

NFPA grade / Chemical Name	Health	Flammability	Reactivity
1,6-Diisocyanatohexane homopolymer	2	1	1
Toluene	2	3	0
n-Butyl acetate	2	3	0
Propylene glycol methyl ether acetate	1	2	0
Xylene	NO DATA	NO DATA	NO DATA
Ethylbenzene	2	3	0

3. Composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS-NO	Content(%)
1,6-Diisocyanatohexane homopolymer	1,6-Diisocyanatohexane homopolymer	28182-81-2	50
Toluene	Toluene	108-88-3	14
n-Butyl acetate	n-Butyl acetate	123-86-4	15
Propylene glycol methyl ether acetate	Propylene glycol methyl ether acetate	108-65-6	10
Xylene	Xylene	1330-20-7	7
Ethylbenzene	Ethylbenzene	100-41-4	4

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 inhalated 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 symtoms.
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.

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 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.

6. Accidental release measures

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.

7. Handling and storage

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 ℃
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.

8. Exposure controls/personal protection

A. Exposure Limits
○ 1,6-Diisocyanatohexane homopolymer
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

○ Toluene
- ACGIH : NO DATA
- Biological exposure indices : While urinating Toluene : 0.02 mg/L(Before work), While urinating Toluene : 0.03 mg/L(After work), While urinating(with hydrolysis) o-Cresol : 0.3 mg/g creatinine(After work)

○ n-Butyl acetate
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

○ Propylene glycol methyl ether acetate
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

○ Xylene
- ACGIH : NO DATA
- Biological exposure indices : While urinating Methylhippuric acids : 1.5 g/g creatinine(After work)

○ Ethylbenzene
- ACGIH : NO DATA
- Biological exposure indices : While urinating (The sum of Mandelic acid, Phenylglyoxylic acids) : 0.15 g/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 threating 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

9. Physical and chemical properties

A. Appearance : Liquid

B. Odor : Solvent Odo

C. Odor threshold : No Data

D. PH : No Data

E. Melting point/Freezing point(℃) : No Data

F. Initial Boiling Point/Boiling Ranges(℃) : 110

G. Flash point(℃) : 25

H. Evaporating Rate : No Data

I. Flammability(solid, gas) : No Data

J. Upper/Lower Flammability or explosive limits : No Data

K. Vapour pressure : No Data

L. Solubility : 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(℃) : No Data

Q. Decomposition temperature(℃) : No Data

R. Viscosity : No Data

S. Molecular weight : No Data

10. Stability and reactivity

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 combustable 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
○ 1,6-Diisocyanatohexane homopolymer
- 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 : This risk may be increased by exposure to a case : Respiratory disorders, skin disorders and allergies
- Aspiration hazard : NO DATA
○ Toluene
- Acute toxicity
Oral : rat LD50=2600 mg/kg
Dermal : rabbit LD50=12,000 mg/kg
Inhalation : rabbit LD50=12,000 mg/kg
- Skin corrosion/irritation : Rabbit skin irritation test using the results of the Causes moderate irritation.
- Serious eye damage/irritation : Eyes irritant test using a rabbit raised for 6 days reversible irritation.
- Respiratory sensitization : NO DATA
- Skin sensitization : Tests with negative results Guinea
- Carcinogenicity
IARC : Group 3
OSHA : NO DATA
ACGIH : A4
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : Dominant lethal test negative, positive micronucleus test, chromosome aberration test positive
- Reproductive toxicity : Dominant lethal test negative, positive micronucleus test, chromosome aberration test positive
- STOT-single exposure : Causes acts on the central nervous system in humans, fatigue, drowsiness, dizziness, respiratory irritation, agitation, vomiting, central nervous system depression, confusion, gait abnormalities. Eyes, nose, causing irritation of the throat. In experimental animals
- STOT-repeated exposure : Headaches accompanied by people from hearing loss or visual field constriction, or nystagmus, tremor, ataxia, loss of memory, such as chronic central nervous system disorder that appears. Noewichuk is observed. It appears kidney dysfunction such as hematuria or pro
- Aspiration hazard : NO DATA
○ n-Butyl acetate
- Acute toxicity
Oral : LD50 = 14130 mg/kg Rat
Dermal : LD50 = 17600 mg/kg Rabbit
Inhalation : LD50 = 17600 mg/kg Rabbit
- Skin corrosion/irritation : Causes a weak stimulus person.
- Serious eye damage/irritation : Non-irritating to rabbit eye irritation
- Respiratory sensitization : NO DATA
- Skin sensitization : Not a skin sensitizer
- 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 : Central nervous system disorders who, pulmonary edema, respiratory irritation.
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA
○ Propylene glycol methyl ether acetate
- Acute toxicity
Oral : LD50 = 8532 mg/kg Rat

Dermal : LD50 > 5000 ㎎/㎏ Rabbit
Inhalation : LD50 > 5000 ㎎/㎏ Rabbit
- Skin corrosion/irritation : rabbit: non-Irritation
- Serious eye damage/irritation : Rabbit: mild irritant
- Respiratory sensitization : NO DATA
- Skin sensitization : Guinea pig / maximization test (GLP): No sensitization
- Carcinogenicity
IARC : NO DATA
OSHA : NO DATA
ACGIH : NO DATA
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : In vitro - Salmonella typhimurium/TA98, TA100, TA1535, TA1537 (ames test, GLP): With and without metabolic activation system- Negative, CHL Cells/Chromosomal abnormalitiestest (GLP):With and without metabolic activation system- Negative, rat Hepatocyte/UDStest (GLP
- Reproductive toxicity : In vitro - Salmonella typhimurium/TA98, TA100, TA1535, TA1537 (Return mutation test, GLP): Negative (negative), CHL Cells / Chromosome aberration test (GLP): Negative (negative), rat hepatocyte / UDS test (GLP) : Negative in the absence of metabolic activation system
- STOT-single exposure : Reported liver effects in humans. Rat Causes affect the spleen. In mice causes an effect on the central nervous system, and lung. That the anesthetic effect on the animal. Irritating to the prayers of people. (ACGIH, etc.)
- STOT-repeated exposure : Reported affect the kidneys, liver, central nervous system in humans. (PATTY 5th)
- Aspiration hazard : NO DATA

○ Xylene
- Acute toxicity
Oral : LD50=3550 ㎎/㎏ rat
Dermal : LD50 4350 ㎎/㎏ Rabbit
Inhalation : LD50 4350 ㎎/㎏ Rabbit
- Skin corrosion/irritation : Skin irritation test in rabbits Causes moderate irritation.
- Serious eye damage/irritation : Skin irritation test in rabbits Causes moderate irritation.
- Respiratory sensitization : NO DATA
- Skin sensitization : NO DATA
- Carcinogenicity
IARC : Group 3
OSHA : NO DATA
ACGIH : A4
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : If three people a voice dynamics, somatic cell mutagenicity tests in vivo (micronucleus test, chromosome test) Voice
- Reproductive toxicity : If three people a voice dynamics, somatic cell mutagenicity tests in vivo (micronucleus test, chromosome test) Voice
- STOT-single exposure : NO DATA
- STOT-repeated exposure : NO DATA
- Aspiration hazard : In the liquid can cause chemical pneumonia if swallowed.

○ Ethylbenzene
- Acute toxicity
Oral : LD50 = 3500 ㎎/㎏ Rat
Dermal : LD50 = 15400 ㎎/㎏ Rabbit
Inhalation : Steam LC50 = 4000 ppm 4 hr Rat (Equivalents : 17.4 ㎎/L)
- Skin corrosion/irritation : skin Irritation test result weak Irritation
- Serious eye damage/irritation : Rabbit eye irritation test results in a slight conjunctival irritation, recoverable damage.
- Respiratory sensitization : NO DATA
- Skin sensitization : NO DATA
- Carcinogenicity
IARC : Group 2B
OSHA : NO DATA
ACGIH : A3
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : Micronucleustest Negative (7)
- Reproductive toxicity : Micronucleustest Negative (7)
- STOT-single exposure : It causes central nervous system effects in laboratory animals and airway irritation.
- STOT-repeated exposure : NO DATA
- Aspiration hazard : Hydrocarbons. Swallowing the liquid by aspiration may cause chemical pneumonia. Ties seongryul 0.74 ㎟ / s (25 ℃)

12. Ecological information

A. Ecotoxicity

○ 1,6-Diisocyanatohexane homopolymer
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA

○ Toluene
- Fish : LC50 24 ㎎/ℓ 96 hr Oncorhynchus mykiss
- Crustaceans : EC50 11.5 ㎎/ℓ 48 hr Daphnia magna
- Algae : NO DATA

○ n-Butyl acetate
- Fish : LC50 = 62 ㎎/ℓ 96 hr
- Crustaceans : LC50 = 32 ㎎/ℓ 48 hr

- Algae : NO DATA

○ Propylene glycol methyl ether acetate
- Fish : LC50 ≥ 100 ㎎/ℓ 96 hr Oryzias latipes
- Crustaceans : EC50 = 373 ㎎/ℓ 48 hr Daphnia magna
- Algae : EC50 ≥ 1000 ㎎/ℓ 72 hr Selenastrum capricornutum

○ Xylene
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA

○ Ethylbenzene
- Fish : LC50 = 9.09 ㎎/ℓ 96 hr
- Crustaceans : LC50 = 0.4 ㎎/ℓ 96 hr
- Algae : NO DATA

B. Persistence and degradability

○ 1,6-Diisocyanatohexane homopolymer
- Persistence : NO DATA
- Degradability : NO DATA

○ Toluene
- Persistence : log Kow 2.73
- Degradability : NO DATA

○ n-Butyl acetate
- Persistence : log Kow = 1.78
- Degradability : NO DATA

○ Propylene glycol methyl ether acetate
- Persistence : log Kow = 0.43
- Degradability : NO DATA

○ Xylene
- Persistence : NO DATA
- Degradability : NO DATA

○ Ethylbenzene
- Persistence : NO DATA
- Degradability : NO DATA

C. Bioaccumulative potential

○ 1,6-Diisocyanatohexane homopolymer
- Bioaccumulative potential : NO DATA
- Biodegration : NO DATA

○ Toluene
- Bioaccumulative potential : NO DATA
- Biodegration : 86 (%) 20 day

○ n-Butyl acetate
- Bioaccumulative potential : NO DATA
- Biodegration : Biodegradability = 98 (%)

○ Propylene glycol methyl ether acetate
- Bioaccumulative potential : NO DATA
- Biodegration : Biodegradability > 60 (%) 28 day

○ Xylene
- Bioaccumulative potential : NO DATA
- Biodegration : 39 (%)

○ Ethylbenzene
- Bioaccumulative potential : NO DATA
- Biodegration : NO DATA

D. Mobility in soil

○ 1,6-Diisocyanatohexane homopolymer
▷ NO DATA

○ Toluene
▷ NO DATA

○ n-Butyl acetate
▷ NO DATA

○ Propylene glycol methyl ether acetate
▷ NO DATA

○ Xylene
▷ log Kow = 3.12 (measured) (ortho), 3.2 (measured) (meta), 3.15 (measurements) (p) (5)

○ Ethylbenzene
▷ log Kow = 3.15 (11)

E. Other adverse effects

○ 1,6-Diisocyanatohexane homopolymer
▷ NO DATA

○ Toluene
▷ NO DATA

○ n-Butyl acetate
▷ NO DATA

○ Propylene glycol methyl ether acetate
▷ NO DATA

○ Xylene
▷ NO DATA

○ Ethylbenzene
▷ NO DATA

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) : 1263

B. Proper shipping name : Paint (including paint, lacquer, enamel, colorants, shellac solutions, varnish, polish, liquid filler and liquid lacquer sealer) or related materials (including paint diluent and reductant).

C. Hazard class : 3

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

E. Marine pollutant : N/A

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-E
○ EmS SPILLAGE SCHEDULE : S-E

15. Regulatory information

○ 1,6-Diisocyanatohexane homopolymer
- 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

○ Toluene
- 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) : notapplicable
  ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
  ▷ EPCRA Section 313 (40CFR372.65) : pertinent
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

○ n-Butyl acetate
- 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) : 2267.995 kg 5000 lb
  ▷ 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

○ Propylene glycol methyl ether acetate
- 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

○ Xylene
- 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) : 45.3599 kg 100 lb
▷ EPCRA Section 302 (40CFR355.30) : notapplicable
▷ EPCRA Section 304 (40CFR355.40) : notapplicable
▷ EPCRA Section 313 (40CFR372.65) : pertinent
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

○ Ethylbenzene
- 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) : notapplicable
▷ EPCRA Section 304 (40CFR355.40) : notapplicable
▷ 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
- 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 : 2024-02-15

C. Revision number and Last date revised : 2.(2024-07-16)

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