NOROO

SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

CLEANPOXY COATING PLUS (HARDENER)

Date of issue: 2026-03-16 Revision date: 2026-06-22 Version: 1.6

1. IDENTIFICATION

A. Product name

- CLEANPOXY COATING PLUS (HARDENER)

B. Recommended use and restriction on use

- General use : 유성 페인트
- Restriction on use : For Concrete

C. Manufacturer / Supplier / Distributor information

- Company name : NOROO PAINT
- Address : 351 Bakdal-ro, Manan-gu, Antang-si, Geonggi-do, 13977, Korea
- Emergency telephone number : 031-467-6114

2. HAZARD IDENTIFICATION

A. GHS Classification

- Flammable liquids : Category3
- Acute toxicity (inhalation: vapor) : Category3
- Skin corrosion/irritation : Category2
- Serious eye damage/irritation : Category2
- Skin sensitization : Category1A
- Carcinogenicity : Category2
- Reproductive toxicity : Category2
- Specific target organ toxicity(Repeated exposure) : Category2
- Aspiration hazard : Category1

B. GHS label elements

○ Hazard symbols



○ Signal words

- Danger

○ Hazard statements

- H226 Flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation

- H331 Toxic if inhaled
- H351 Suspected of causing cancer
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure

○ Precautionary statements

1) Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- 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.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P281

2) Response

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P311 Call a POISON CENTER or doctor/physician.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (if in eyes, wash with plenty of running water; if in contact with skin, wash with plenty of running water; if inhaled, move to fresh air; if ingested, seek medical advice on whether to induce vomiting).
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P362+P364 Take off contaminated clothing and wash before reuse.
- P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section SDS 5).

3) Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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(%)
4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	Not available	25036-25-3	20~30
Limestone	Calcium carbonate ; Calcite ; Marble	1317-65-3	20~30
Xylene	Xylol ; Methyltoluene	1330-20-7	10~17
Titanium dioxide	Titanium oxide (Tio2) ; Titanium peroxide (Tio2) ; Dioxotitanium ; Pigment white 6	13463-67-7	3~10
Dimethyl carbonate	Carbonic acid, dimethyl ester ; Methyl carbonate	616-38-6	3~10
2-Butoxyethanol	O-Butyl ethylene glycol ; Ethylene glycol butyl ether ; Ethylene glycol N-butyl ether ; Glycol butyl ether ; Glycol monobutyl ether ; Monobutyl glycol ether ; Butyl glycol ; Butyl oxitol ;	111-76-2	1~5
Petroleum resins	Neopolymer (petroleum resin) ; Hydrocarbon resin ; Hydrocarbons, petroleum resins ;	64742-16-1	1~5
Isobutanol	Isobutyl alcohol ; 2-Methyl-1-propanol ; Isopropylcarbinol ; 2-Methylpropan-1-ol ; 1-Hydroxymethylpropane ; 2-Methyl propanol ; 2-Methylpropyl alcohol ; 1-Isobutanol	78-83-1	1~5

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.
- Get medical attention immediately.
- 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.
- Get medical attention immediately.
- 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.
- Get medical attention immediately.
- If breathing is stopped or irregular, give artificial respiration and supply oxygen.
- Take the doctor's examination.

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- Get medical attention immediately.

- If swallowed, large amounts of water to drink and do not induce vomiting.

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.
- If exposed or concerned, get medical attention/advice.

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 serious eye irritation
- Causes skin irritation
- Flammable liquid and vapour
- May be fatal if swallowed and enters airways
- May cause an allergic skin reaction

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.
- Move containers from fire area, if you can do without the risk.
- Notify your local firestation and inform the location of the fire and characteristics hazard.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Due to the extremely low flash point, irrigating fire extinguishing may be less effective when put out a fire.

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.
- Ventilate closed spaces before entering.
- Wear proper personal protective apparatus as indicated in Section 8 and avoid skin contact and inhalation.

B. Environmental precautions

- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.
- 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.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.

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.
- Do not inhale the steam prolonged or repeated.
- Get the manual before use.
- Refer to Engineering controls and personal protective equipment.
- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Wash thoroughly after handling.

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.
- Keep in the original container.
- Keep sealed when not in use.
- No open fire.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Prevent static electricity and keep away from combustible materials or heat sources.
- Save in cool, dry and well ventilated place.
- Store according to current laws and regulations

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

○ ACGIH TLV

- [Xylene] : TWA 20 ppm
- [Isobutanol] : TWA, 50 ppm (152 mg/m3)

○ OSHA PEL

- [Limestone] : 15 mg/m3 (Total dust), 5 mg/m3 (Respirable fraction)
- [Xylene] : 100 ppm, 435 mg/m3
- [Titanium dioxide] : 15 mg/m3 (Total dust)
- [2-Butoxyethanol] : 50 ppm, 240 mg/m3
- [Isobutanol] : 100 ppm, 300 mg/m3

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 vaporcartridge(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	Colored liquid
B. Odor	Specific Odor
C. Odor threshold	NO DATA
D. pH	Not available
E. Melting point/Freezing point	NO DATA
F. Initial Boiling Point/Boiling Ranges	Not available
G. Flash point	23
H. Evaporation rate	NO DATA
I. Flammability(solid, gas)	NO DATA
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	NO DATA
L. Solubility	NO DATA
M. Vapour density	NO DATA
N. Specific gravity(Relative density)	1.3307
O. Partition coefficient of n-octanol/water	NO DATA
P. Autoignition temperature	NO DATA
Q. Decomposition temperature	NO DATA
R. Viscosity	Not available
S. Molecular weight	NO DATA

10. STABILITY AND REACTIVITY

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Cylinders exposed to fire may vent and release flammable gas.

C. Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid: Heating, Flames and hot surfaces
- Avoid contact with heat, sparks, flame or other ignition sources.

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

- May be fatal if swallowed and enters airways

○ Oral

- Not available

○ Eye·Skin

- Causes serious eye irritation
- Causes skin irritation
- May cause an allergic skin reaction

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
- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : LD50 > 2000 mg/kg Rat (NICS)
- [Xylene] : LD50 3523 mg/kg Rat (EU Method B.1) (ECHA)
- [Titanium dioxide] : LD50 > 10000 ㎎/㎏ Rat (HSDB)
- [Dimethyl carbonate] : LD50 > 5000 mg/kg Rat (OECD TG 401, GLP) (ECHA)
- [2-Butoxyethanol] : LD50 1414 ㎎/㎏ Guinea pig (OECD TG 401, GLP)
- [Petroleum resins] : LD50 > 2000 ㎎/㎏ Rat (OECD TG 423, GLP)
- [Isobutanol] : LD50 3350 ㎎/㎏ Rat (OECD TG 401, GLP) (ECHA)

* Dermal

- Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : LD50 > 2000 mg/kg Rat (NICS)
- [Xylene] : LD50 1700 mg/kg Rabbit (NITE)、EU Harmonized Cat. 4 (ECHA)
- [Titanium dioxide] : LD50 > 10000 ㎎/㎏ Rabbit (IUCLID)
- [Dimethyl carbonate] : LD50 > 2000 mg/kg Rabbit (GLP) (ECHA)
- [2-Butoxyethanol] : LD50 >2000 ㎎/㎏ Rat (ECHA)
- [Isobutanol] : LD50 > 2000 ㎎/㎏ Rabbit (OECD TG 402, GLP) (ECHA)

* Inhalation

- Product (ATEmix) : 2.0mg/L 4hr < ATEmix <= 10.0mg/L 4hr
- [Xylene] : Vapor LC50 > 10 ~ 20 mg/L 4hr, EU Harmonized Cat. 4 (ECHA)
- [Titanium dioxide] : LC50 >3.43 ㎎/ℓ Rat (OECD TG 403)
- [Dimethyl carbonate] : Vapor LC50 > 5.36 mg/L 4 hr Rat No death Not classified (OECD TG 403, GLP) (ECHA)
- [2-Butoxyethanol] : 구분3
- [Isobutanol] : Vapour LC50 > 18.18 ㎎/ℓ 6 hr Rat (40 CFR Part 798.1150, GLP) (ECHA)

○ Skin corrosion/irritation

- Causes skin irritation

○ Serious eye damage/irritation

- Causes serious eye irritation

○ Respiratory sensitization

- Not available

○ Skin sensitization

- May cause an allergic skin reaction

○ Carcinogenicity

* IARC

- [Xylene] : Group 3
- [Titanium dioxide] : Group 2B
- [2-Butoxyethanol] : Group 3

* OSHA

- Not available

* ACGIH

- [Xylene] : A4
- [Titanium dioxide] : A4
- [2-Butoxyethanol] : A3

* NTP

- Not available

* EU CLP

- Not available

○ Germ cell mutagenicity

- Not available

○ Reproductive toxicity

- Suspected of damaging fertility or the unborn child

○ STOT-single exposure

- Not available

○ STOT-repeated exposure

- May cause damage to organs through prolonged or repeated exposure

○ Aspiration hazard

- May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

○ Fish

- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : LC50 > 100 mg/L 96 hr O. latipes (NICS)
- [Xylene] : LC50 7.6 mg/L 96 hr Oncorhynchus mykiss (Read-across 95-47-6) (OECD TG 203) (ECHA), NOEC 0.714 mg/L 35 d Danio rerio (Read-across 106-42-3) (OECD TG 210, GLP) (ECHA)
- [Titanium dioxide] : LL50 >100 ㎎/ℓ 96 hr Oryzias latipes(OECD TG 203)
- [Dimethyl carbonate] : LC50 >= 100 mg/L 9 6hr Danio rerio (OECD TG 203, GLP) (ECHA)
- [2-Butoxyethanol] : LC50 1474 ㎎/ℓ 96 hr Oncorhynchus mykiss(OECD Guideline 203)
- [Isobutanol] : LC50 1430 ㎎/ℓ 96 hr Pimephales promelas (ECHA)

○ Crustaceans

- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : EC50 > 100 mg/L 48 hr D. magna (NICS)
- [Xylene] : EC50 4.7 mg/L 48 hr Daphnia magna (Read-across 108-38-3) (NIER), NOEC 1.17 mg/L 7 d Ceriodaphnia dubia (ECHA)
- [Titanium dioxide] : EC50 >100 ㎎/ℓ 48 hr Daphnia magna(48h-EL50Daphnia magna>100 mg/L, 48h-EC50>100,

48h-EC10=91.2 mg/L, OECD TG 202)

- [Dimethyl carbonate] : EC50 > 100 mg/L 48 hr Daphnia magna (OECD TG 202, GLP), NOEC 25 mg/L 21 d Daphnia magna (OECD TG 211, GLP) (ECHA)

- [2-Butoxyethanol] : EC50 1800 ㎎/ℓ 48 hr Daphnia magna(OECD TG 202)

- [Petroleum resins] : EC50 > 100㎎/ℓ 48hr Daphnia magna (OECD TG 202, GLP) (ECHA)

- [Isobutanol] : EC50 1100 ㎎/ℓ 48 hr Daphnia magna, NOEC 20 ㎎/ℓ 21 d Daphnia magna (ECHA)

○ Algae

- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : ErC50 > 100 mg/L, NOEC 100 mg/L 72 hr P. subspicatus (NICS)

- [Xylene] : EC50 4.7 mg/L 72 hr Raphidocelis subcapitata (Read-across 95-47-6) (OECD TG 201) (ECHA)

- [Titanium dioxide] : ErL50 >100 ㎎/ℓ 72 hr (Pseudokirchneriella subcapitata, 72h-ErL50 Pseudokirchneriella subcapitata >100 mg/L growth rate, static, 72h-EyL50 >100 mg/L static, OECD TG 201)

- [Dimethyl carbonate] : EC50 > 100 mg/L 72 hr, NOEC >= 100 mg/L 72 hr Raphidocelis subcapitata (OECD TG 201, GLP) (ECHA)

- [2-Butoxyethanol] : EC50 911 ㎎/ℓ 72 hr Selenastrum capricornutum(OECD TG 201)

- [Petroleum resins] : EC50 > 100㎎/ℓ 72hr Desmodesmus subspicatus (OECD TG 201, GLP) (ECHA)

- [Isobutanol] : EC50 593 ㎎/ℓ 72 hr, NOEC < 53 mg/L 72 hr Raphidocelis subcapitata (OECD TG 201, GLP) (ECHA)

B. Persistence and degradability

○ Persistence

- [Xylene] : log Pow 3.12 (Read-across 95-47-6) (ECHA)

- [Dimethyl carbonate] : log Kow 0.354 (20 ˚C) (OECD TG 107, GLP) (ECHA)

- [2-Butoxyethanol] : 0.81 log Kow (25 ˚C, pH=7, BASF standard method)

- [Isobutanol] : log Kow 0.8 (ISCS), log Pow 1 (25 ℃) (OECD TG 117, GLP) (ECHA)

○ Degradability

- Not available

C. Bioaccumulative potential

○ Bioaccumulative potential

- [Xylene] : BCF 25.9 dimensionless (ECHA)

○ Biodegradation

- [Xylene] : Readily biodegradable, 94 % degradation (O2 consumption) 28d (Read-across 95-47-6) (OECD TG 301 F, GLP) (ECHA)

- [Dimethyl carbonate] : Readily biodegradable, 86 % 28 d (O2 consumption) (OECD TG 301 C, GLP) (ECHA)

- [2-Butoxyethanol] : 90.4 % 28 day (OECD TG 301G)

- [Petroleum resins] : Not readily biodegradable 18 % 28 d (CO2 evolution) (OECD TG 301 B, GLP) (ECHA)

- [Isobutanol] : Readily biodegradable, 70 ~ 80 % 28 d (O2 consumption) (OECD TG 301 D) (ECHA)

D. Mobility in soil

- [Xylene] : log Koc ca. 2.73 dimensionless (Read-across 95-47-6) (OECD TG 121) (ECHA)

- [Isobutanol] : Koc 2.92 (log Koc 0.47) (calculation) (ECHA)

E. Other adverse effects

- [2-Butoxyethanol] : FIsh Danio rerio: NOEC14d>100 mg/L OECD TG 204, Crustacean Daphnia magna: NOEC21d=100 mg/L OECD TG 211 (ECHA)

- [Isobutanol] : Crustaceans(Daphnia magna); NOEC(21d) 20mg/L Algae(Pseudokirchnerella subcapitata); NOEC(72h)>53mg/L (OECD Guideline 201, Alga, Growth Inhibition Test,GLP) (ECHA)

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)

- 1263

B. Proper shipping name

- PAINT

C. Hazard Class

- 3

D. IMDG CODE/IATA DGR Packing group

- III

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 : F-E (Non-water-reactive flammable liquids)

- EmS SPILLAGE SCHEDULE : S-E (Flammable liquids, floating on water)

15. REGULATORY INFORMATION

A. National and/or international regulatory information

○ POPs Management Law

- [4,4'-(1-Methylethylidene)bisphenol polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]] : Not applicable

- [Limestone] : Not applicable

- [Xylene] : Not applicable

- [Titanium dioxide] : Not applicable

- [Dimethyl carbonate] : Not applicable

- [2-Butoxyethanol] : Not applicable

- [Petroleum resins] : Not applicable

- [Isobutanol] : Not applicable

○ Information of EU Classification

* Classification

- [Xylene] : H226,H312,H315,H332

- [Dimethyl carbonate] : H225

- [2-Butoxyethanol] : Not applicable

- [Isobutanol] : H226,H315,H318,H335,H336

○ U.S. Federal regulations

* OSHA PROCESS SAFETY (29CFR1910.119)

- Not applicable

* CERCLA Section 103 (40CFR302.4)

- [Xylene] : 45.3599 kg 100 lb

- [Isobutanol] : 2267.995 kg 5000 lb

* EPCRA Section 302 (40CFR355.30)

- Not applicable

* EPCRA Section 304 (40CFR355.40)

- Not applicable

* EPCRA Section 313 (40CFR372.65)

- [Xylene] : 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

- 2026-03-16

C. Revision number and Last date revised

- 6 times, 2026-06-22

D. Other

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