NOROO

SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

DVB-2085(E) A

Date of issue: 2026-01-07 Revision date: 2026-01-07 Version: 1.3

1. IDENTIFICATION

A. Product name

- DVB-2085(E) A

B. Recommended use and restriction on use

- General use : Paint
- Restriction on use : Industrial use only

C. Manufacturer / Supplier / Distributor information

- Company name :
- Address : 351
- Emergency telephone number : 031-467-6114

2. HAZARD IDENTIFICATION

A. GHS Classification

- Flammable liquids : Category3
- Acute toxicity (inhalation: vapor) : Category4
- Skin corrosion/irritation : Category2
- Serious eye damage/irritation : Category2
- Skin sensitization : Category1
- Carcinogenicity : Category2
- Reproductive toxicity : Category2
- Specific target organ toxicity(Single exposure) : Category3(Narcotic effects)
- Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation)
- Specific target organ toxicity(Repeated exposure) : Category2
- Aspiration hazard : Category1
- Chronic aquatic toxicity : Category3

B. GHS label elements

Hazard symbols



Signal words

- Not applicable

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
- H332 Harmful if inhaled
- H335 May cause respiratory irritation.
- H336 May cause drowsiness and dizziness.
- 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
- H412 Harmful to aquatic life with long lasting effects

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.
- P273 Avoid release to the environment.
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- 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 MSDS 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(%)
Xylene	Xylol ; Methyltoluene	1330-20-7	30.327
Toluene	Methylbenzene ; Methylbenzol ; Phenyl methane ; Methacide ; Toluol ; 1-Methylbenzene	108-88-3	28.8
Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin	Bisphenol A, epichlorohydrin, dimer fatty acids polymer	67989-52-0	23.025
Modified-epoxy resin	Modified-epoxy resin	-	6.21
Ethylbenzene	Benzene, ethyl- ; Ethyl benzene ; Ethylbenzol ; Phenylethane ;	100-41-4	4.038
,'-[(1-Methylethylidene)di-4,1-phenylene]bis[-hydroxypoly(oxy-1,2-ethanediyl)]	Ethoxylated bisphenol A	32492-61-8	3.9
2,2-Bis(4'-glycidyloxyphenyl)propane	Diphenylol propane dicylcidyl ether ; Bisphenol A diglycidyl ether ; Dimethylmethane diglycidyl ether ; 2,2-bis(4-(2,3-Epoxypropoxy)phenyl) propane ; 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; 4,4'-Bis(2,3-epoxypropoxy)diphenyldimethylmethane ; Bis(4-hydroxyphenyl)dimethylmethane diglycidyl ether ; Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis- ; 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1675-54-3	3.6
Solvent naphtha (petroleum), light arom.	Naphtha	64742-95-6	0.086
		-	0.007
Propylene glycol methyl ether acetate	Propylene glycol monomethyl ether acetate ; 2-(1-Methoxy)propyl acetate ; 1-Methoxypropan-2-yl acetate ;	108-65-6	0.0069

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.

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
- Harmful if inhaled
- Harmful to aquatic life with long lasting effects

C. Special protective actions for firefighters

- Avoid inhalation of materials or combustion by-products.
- Cool containers with water until well after fire is out.
- Do not approach the tank surrounded by fire until it is extinguished.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.

- Keep unauthorized personnel out.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Move container to safe area from the leak area.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.

B. Environmental precautions

- 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.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Avoid direct physical contact.
- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.

B. Conditions for safe storage, including any incompatibilities

- Avoid direct sunlight.
- Check regularly for leaks.
- Do not apply any physical shock to container.
- Do not apply direct heat.
- Do not use damaged containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

ACGIH TLV

- [Xylene] : TWA 20 ppm
- [Toluene] : TWA 20 ppm (75 mg/m3)
- [Ethylbenzene] : TWA, 20 ppm (87 mg/m3)

OSHA PEL

- [Xylene] : 100 ppm, 435 mg/m3
- [Toluene] : 200 ppm, (C) 300 ppm
- [Ethylbenzene] : 100 ppm, 435 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	
- Color	Yellowish liquid
B. Odor	Mixed solvent 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	30
H. Evaporation 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	No data
M. Vapour density	No data
N. Specific gravity(Relative density)	0.92~0.96(25)
O. Partition coefficient of n-octanol/water	No data
P. Autoignition temperature	No data
Q. Decomposition temperature	No data
R. Viscosity	7~15cps(25)
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
- May cause respiratory irritation.

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
  - [Xylene] : LD50 3523 mg/kg Rat (EU Method B.1) (ECHA)
  - [Toluene] : LD50 5580 mg/kg Rat (EU Method B.1, ECHA)
  - [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : LD50 > 2000 mg/kg Rat (NICS)
  - [Ethylbenzene] : LD50 3500 mg/kg Rat (ECHA)
  - [2,2-Bis(4'-glycidyloxyphenyl)propane] : LD50 11,300 / rat (HSDB)
  - [Solvent naphtha (petroleum), light arom.] : LD50 > 5000 mg/kg Rat (Read across 86290-81-5) (OECD TG 401, GLP) (ECHA)
  - [Propylene glycol methyl ether acetate] : LD50 6190 mg/kg Rat (OECD TG 401, GLP) (ECHA)
* Dermal
  - Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
  - [Xylene] : LD50 1700 mg/kg Rabbit (NITE)EU Harmonized Cat. 4 (ECHA)
  - [Toluene] : LD50 > 5000 mg/kg Rabbit (ECHA)
  - [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : LD50 > 2000 mg/kg Rat (NICS)
  - [Ethylbenzene] : LD50 15432 mg/kg (17.8 mL/kg) Rabbit (ECHA)
  - [2,2-Bis(4'-glycidyloxyphenyl)propane] : LD50 >23,200 / Rabbit (IARC, NITE)
  - [Solvent naphtha (petroleum), light arom.] : LD50 > 2000 mg/kg Rabbit (Read across 86290-81-5) (OECD TG 402, GLP) (ECHA)
  - [Propylene glycol methyl ether acetate] : LD50 > 5000 mg/kg Rabbit (IUCLID)
* Inhalation
  - Product (ATEmix) : 10.0mg/L 4hr < ATEmix <= 20.0mg/L 4hr
  - [Xylene] : Vapor LC50 > 10 ~ 20 mg/L 4hr, EU Harmonized Cat. 4 (ECHA)
  - [Toluene] : Vapor LC50 28.1 mg/L 4 hr Rat (OECD TG 403, ECHA)
  - [Ethylbenzene] : Vapor LC50 10~20 mg/L 4 hr (EU Harmonized Cat. 4) (ECHA)
  - [Solvent naphtha (petroleum), light arom.] : Vapour LC50 > 7.63 mg/L Rat 4 hr (Read across 86290-81-5) (OECD TG 403, GLP) (ECHA)
  - [Propylene glycol methyl ether acetate] : Vapor LC0 >23.3 mg/L/4h, LC0 > 1732ppm 4hr (> 2000 ppm 3hr) Rat No death Not classified (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
  - [Toluene] : Group 3
  - [Ethylbenzene] : Group 2B
  - [2,2-Bis(4'-glycidyloxyphenyl)propane] : Group 3
* OSHA
  - Not available
* ACGIH
  - [Xylene] : A4
  - [Toluene] : A4
  - [Ethylbenzene] : A3
* NTP
  - Not available
* EU CLP
  - [Solvent naphtha (petroleum), light arom.] : Carc. 1B (Note P)

Germ cell mutagenicity

- Not available

Reproductive toxicity

- Suspected of damaging fertility or the unborn child

STOT-single exposure

- May cause drowsiness and dizziness.
- May cause respiratory irritation.

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

- [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)
- [Toluene] : LC50 5.5 mg/L 96 hr, NOEC 1.39 mg/L 40 d Oncorhynchus kistutch (ECHA)
- [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : LC50 >100 mg/L 96h D. rerio (NICS)
- [Ethylbenzene] : LC50 5.1 mg/L 96 hr Menidia menidia (ECHA)
- [2,2-Bis(4'-glycidyloxyphenyl)propane] : LC50 1.5 mg/L 96 hr Oncorhynchus mykiss (ECHA)
- [Solvent naphtha (petroleum), light arom.] : LL50 8.2 mg/L 96hr Pimephales promelas (Read-across Light alkylate naphtha) (EPA 66013-75-009, GLP), NOELR 2.6 mg/L 14d Pimephales promelas (Read-across Light Catalytically Reformed Naphtha) (OECD TG 204, GLP) (ECHA)
- [Propylene glycol methyl ether acetate] : LC50 100~180 mg/L 96 hr Oncorhynchus mykiss (OECD TG 203), NOEC 47.5 mg/L 14 d Oryzias latipes (OECD TG 204, GLP) (ECHA)

Crustaceans

- [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)
- [Toluene] : EC50 3.78 mg/L 48hr, NOEC 0.74 mg/L 7 d Ceriodaphnia dubia (US EPA 600/4-91-003) (ECHA)
- [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : EC50 > 100 mg/L 48h D. magn (NICS)

- [Ethylbenzene] : EC50 1.8~2.4 mg/L 48 hr Daphnia magna, NOEC 0.96 mg/L 7 d Ceriodaphnia dubia (ECHA)

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : EC50 1.7 mg/L 48 hr Daphnia magna (ECHA)

- [Solvent naphtha (petroleum), light arom.] : EL50 4.5 mg/L 48hr Daphnia magna (Read-across straight-run light gasoline) (OECD TG 202, GLP), NOELR 2.6 mg/L 21d (Read-across Light alkylate naphtha) (OECD TG 211, GLP) (ECHA)

- [Propylene glycol methyl ether acetate] : EC50 408 mg/L 48 hr Daphnia magna (OECD TG 202, GLP), NOEC >= 100 mg/L 21 d Daphnia magna (OECD TG 211, GLP) (ECHA)

Algae

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

- [Toluene] : EC50 134 mg/L 3 hr Chlamydomonas angulosa (ECHA)

- [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : EC50 > 100 mg/L 72h P. subcapitata (NICS)

- [Ethylbenzene] : EC50 3.6 mg/L 96 hr, NOEC 3.4 mg/L 96 hr Raphidocelis subcapitata (ECHA)

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : EC50 9.4 mg/L 72 hr, NOEC 4.2 mg/L 72 hr Scenedesmus capricornutum (ECHA)

- [Solvent naphtha (petroleum), light arom.] : EL50 3.1 mg/L, NOELR 0.5 mg/L 72hr Selenastrum capricornutum (Read-across Blended Gasoline) (OECD TG 201, GLP) (ECHA)

- [Propylene glycol methyl ether acetate] : EC50 >1000 mg/L 72 hr, NOEC >= 1000 mg/L 96 hr Raphidocelis subcapitata (OECD TG 201) (ECHA)

B. Persistence and degradability

Persistence

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

- [Toluene] : log Pow 2.73 (20 °C, pH 7) (ECHA)

- [Ethylbenzene] : log Pow 3.6 (20 °C) (ECHA)

- [,'-[(1-Methylethylidene)di-4,1-phenylene]bis[-hydroxypoly(oxy-1,2-ethanediyl)]] : log Kow = 1.58 (Estimate)

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : log Kow 2.64 ~ 3.78 (25 °C) (ECHA)

- [Propylene glycol methyl ether acetate] : log Pow 1.2 (20 °C) (OECD TG 117, GLP) (ECHA)

Degradability

- Not available

C. Bioaccumulative potential

Bioaccumulative potential

- [Xylene] : BCF 25.9 dimensionless (ECHA)

- [Toluene] : BCF 90 (Leuciscus idus melanotus) (ECHA)

- [Ethylbenzene] : BCF 1 (ECHA)

- [,'-[(1-Methylethylidene)di-4,1-phenylene]bis[-hydroxypoly(oxy-1,2-ethanediyl)]] : BCF = 0.7327 (Estimate)

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : Log BCF 1.11 ± 0.75, BCF 31 (OASIS CATABOL QSAR estimate, ECHA)

Biodegradation

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

- [Toluene] : Readily biodegradable, 69 BOD/ThOD 5 d (ECHA)

- [Ethylbenzene] : Readily biodegradable, 70~ 80 % 28 d (inorg. C analysis) (ISO 14593-CO2-Headspace Test) (ECHA)

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : 0 (%) 28 day (NITE)

- [Propylene glycol methyl ether acetate] : 83 % 28 d, Readily biodegradable (OECD TG 301 F, GLP) (ECHA)

D. Mobility in soil

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

- [Toluene] : Koc > 34 ~ < 120 (OECD TG 312, ECHA)

- [,'-[(1-Methylethylidene)di-4,1-phenylene]bis[-hydroxypoly(oxy-1,2-ethanediyl)]] : Koc = 10 (Estimate)

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- It shall be treated by incineration
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable
- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them

B. Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- 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

- [Xylene] : Not applicable
- [Toluene] : Not applicable
- [Fatty acids, (C=18)-unsatd., dimers polymers with bisphenol A and epichlorohydrin] : Not applicable
- [Modified-epoxy resin] : Not applicable
- [Ethylbenzene] : Not applicable
- [,'-[(1-Methylethylidene)di-4,1-phenylene]bis[-hydroxypoly(oxy-1,2-ethanediyl)]] : Not applicable
- [2,2-Bis(4'-glycidyloxyphenyl)propane] : Not applicable
- [Solvent naphtha (petroleum), light arom.] : Not applicable
- [] : Not applicable
- [Propylene glycol methyl ether acetate] : Not applicable

Information of EU Classification

* Classification
  - [Xylene] : H226,H312,H315,H332
  - [Toluene] : H225,H304,H315,H336,H361,H373
  - [Ethylbenzene] : H225,H304,H332,H373

- [2,2-Bis(4'-glycidyloxyphenyl)propane] : H315,H317,H319
- [Solvent naphtha (petroleum), light arom.] : H304,H340,H350
- [Propylene glycol methyl ether acetate] : H226

U.S. Federal regulations

* OSHA PROCESS SAFETY (29CFR1910.119)
  - Not applicable
* CERCLA Section 103 (40CFR302.4)
  - [Xylene] : 45.3599 kg 100 lb
  - [Toluene] : 453.599 kg 1000 lb
  - [Ethylbenzene] : 453.599 kg 1000 lb
* EPCRA Section 302 (40CFR355.30)
  - Not applicable
* EPCRA Section 304 (40CFR355.40)
  - Not applicable
* EPCRA Section 313 (40CFR372.65)
  - [Xylene] : Applicable
  - [Toluene] : Applicable
  - [Ethylbenzene] : 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

- 2026-01-07

C. Revision number and Last date revised

- 3 times, 2026-01-07

D. Other

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