
LEGGARI

METALLIC EPOXY

Part A Safety Data Sheet

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TRADE NAME (AS LABELED):	LEGGARI METALLIC EPOXY PART A
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GHS CLASSIFICATION

Acute Toxicity (inhalation: vapor):	Category 4
Reproductive toxicity:	Category 1B
Germ cell mutagenicity:	Category 2
Acute aquatic toxicity:	Category 1
Chronic aquatic toxicity:	Category 1
Serious eye damage/irritation:	Category 2A
Skin sensitization:	Category 1
Skin corrosion/irritation:	Category 2
Flammable liquids:	Category 4

SIGNAL WORD

Danger

HAZARDOUS STATEMENTS

H332 Harmful if inhaled.
H360 May damage fertility or the unborn child.
H341 Suspected of causing genetic defects.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H227 Flammable liquid.

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.
P272 Contaminated work clothing should not be allowed out of the workplace.
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 in a position comfortable for breathing.
P308+P313 If exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
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 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. P370+P378 In case of fire: Use suitable extinguishing media for extinction (Refer Section 5).

GHS LABEL ELEMENTS



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.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:(NFPA CLASSIFICATION)

Chemical Name	Health	Flammability	Reactivity	GHS Classification
2,2-Bis(4'-glycidylloxyphenyl)propane	2	2	0	H315, H317, H319, H410
Dodecylphenol, branched	NO DATA	NO DATA	NO DATA	H319, H360, H400, H410
Benzyl alcohol	2	1	0	H317, H332
Neodecanoic acid 2, 3-epoxypropyl ester	2	1	0	H315, H317, H319, H341, H410

3 | COMPOSITION INFORMATION



Chemical Name	Trade names and Synonyms	CAS no.	Content (%)
2,2-Bis(4'glycidylloxyphenyl)propane	2,2-Bis(4'glycidylloxyphenyl)propane	1675-54-3	89-99
Dodecylphenol, branched	Dodecylphenol, branched	121158-58-5	1-10
Benzyl alcohol	Benzyl alcohol	100-51-6	1-10
Neodecanoic acid 2, 3-epoxypropylester	Neodecanoic acid 2, 3-epoxypropylester	26761-45-5	1-10

4 | FIRST-AID MEASURES



Eye Contact

Flush exposed eyes with plenty of water for more than 15 minutes.
If irritation, pain, swelling, tears or glaring happens, take medical assistance immediately.
Do not rub your eyes.
If you wear contact lenses, remove them first.

Skin Contact

Remove exposed clothing, and wash off exposed area with soap and water.
If symptoms like irritation or pain occurs, take medical assistance immediately.
Wash off with soap and water for more than 15 minutes. And take medical assistance immediately.
If symptoms like redness or irritation occurs, take medical assistance immediately.
Wash carefully after handling.
Wear gloves while washing the patient and avoid contact with exposed clothes.

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, administer oxygen.
Remove contaminated clothing and shoes, and isolate it.
Take a medical assistance immediately.

Ingestion Contact

Please be advised by doctor whether induction of vomit is demanded or not.
If vomiting occurs, keep head below hips to prevent aspiration into lungs.
If ingested large quantity, take medical assistance.
Take proper medical assistance by symptoms.
It is needed 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.

Notes to Physician

Notify medical personnel of contaminated situations and have them take appropriate protective measures.





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 of waterjet as fire extinguishing agent.
- Avoid extinguishing fire with halogenating agent.
- Case of big fire : Spread large amount of the extinguishing agent as a mist form with staying against wind.
- Stay more than 800m away to avoid tank explosion.
- Use appropriate protective device depending on the situation.

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

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.



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.

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

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.



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.

Conditions for safe storage, including any incompatibilities

Because of evaporation and contamination concerns, use airtight the container and store in a well-ventilated building.
Avoid direct sunlight while storing outdoors.
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.

8 | EXPOSURE CONTROLS/PERSONAL PROTECTION



Exposure Limits

*2,2-Bis(4'-glycidyoxyphenyl)propane
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

*Dodecylphenol, branched
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

*Benzyl alcohol
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

*Neodecanoic acid 2,3-epoxypropyl ester
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

B. Engineering Controls :

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

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

9 | PHYSICAL AND CHEMICAL PROPERTIES



Appearance:	liquid	Vapour pressure:	no data
Odor:	No data	Solubility:	no data



Odor Threshold:	no data
PH:	no data
Melting point/Freezing point(°C):	no data
Initial Boiling Point/Boiling Ranges(°C):	171°C
Flash Point(°C):	74
Evaporating Rate:	no data
Flammability (solid, gas):	no data
Upper/Lower Flammability or explosive limits:	no data

Vapour density:	no data
Specific gravity:	1.1 +/- 0.3
Partition coefficient of n-oc-tanol/water:	no data
Autoignition temperature(°C):	425
Decomposition temperature(°C):	no data
Viscosity:	120-130KU
Molecular weight:	no data

10 | STABILITY AND REACTIVITY



Chemical stability

NO DATA

Possibility of hazardous reactions

- Do not contact with heat, spark, flame or other flammable sources
- Avoid contaminants and friction

Conditions to avoid

Oxidation agent, metal and combustible materials

Hazardous decomposition products

Thermal decomposition products (carbon etc.,)

11 | TOXICOLOGICAL INFORMATION



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

Delayed and immediate effects and also chronic effects from short and long term exposure

*2,2-Bis(4'-glycidyoxyphenyl)propane

- Acute toxicity

Oral : LD50 15600 mg/kg Other (Other)

Dermal : LD50 20000 mg/kg Rabbit

Inhalation : LD50 20000 mg/kg Rabbit

- Skin corrosion/irritation : weakstimulus(500mg, rabbit)

- Serious eye damage/irritation : Severe irritation(2mg, 24, rabbit)

- Respiratory sensitization : NO DATA

- Skin sensitization : NO DATA

- Carcinogenicity

IARC : Group 3

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

*Dodecylphenol, branched

- 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

*Benzyl alcohol

- Acute toxicity

Oral : LD50 = 1230 mg/kg Rat

Dermal : LD50 = 2000 mg/kg Rabbit

Inhalation : LD50 = 2000 mg/kg Rabbit

- Skin corrosion/irritation : usuallystimulus(100mg, 24H, rabbit)

- Serious eye damage/irritation : Non-irritating(rabbit)

- Respiratory sensitization : NO DATA

- Skin sensitization : NO DATA

- Carcinogenicity

IARC : NO DATA

OSHA : NO DATA

ACGIH : NO DATA

NTP : NO DATA



EU CLP : NO DATA
- Germ cell mutagenicity : NO DATA
- Reproductive toxicity : NO DATA
- STOT-single exposure : NO DATA
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA
*Neodecanoic acid 2,3-epoxypropyl ester
- Acute toxicity
Oral : LD50 > 10 mg/kg Rat
Dermal : LD50 = 4 mg/kg Rat
Inhalation : LD50 = 4 mg/kg Rat
- Skin corrosion/irritation : Rabbit / Draize Test: middle-stimulated
- Serious eye damage/irritation : eye irritation
- Respiratory sensitization : NO DATA
- Skin sensitization : Guinea pig / maximization test it (GLP) / skin:sensitization
- Carcinogenicity

IARC : NO DATA
OSHA : NO DATA
ACGIH : NO DATA
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : Reverse mutation test positive, negative In all. Rat / liver degeneration using DNA test: negative
- Reproductive toxicity : Reverse mutation test positive, negative In all. Rat / liver degeneration using DNA test: negative
- STOT-single exposure : NO DATA
- STOT-repeated exposure : Rat / oral (100, 500, 1000, 5000, 10000 ppm for 5weeks) / OECD TG 407 (GLP): NOAEL = 1000ppm
- Aspiration hazard : NO DATA

12 | ECOLOGICAL INFORMATION



Ecotoxicity

*2,2-Bis(4'-glycidylloxyphenyl)propane
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA
*Dodecylphenol, branched
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA
*Benzyl alcohol
- Fish : LC50 = 10 mg/l 96 hr
- Crustaceans : NO DATA
- Algae : NO DATA
*Neodecanoic acid 2,3-epoxypropyl ester
- Fish : LC50 = 5 mg/l 96 hr Oncorhynchus mykiss
- Crustaceans : EC50 = 4.8 mg/l 48 hr Daphnia magna
- Algae : EC50 = 3.5 mg/l 96 hr Selenastrum capricornutum

Persistence and degradability

*2,2-Bis(4'-glycidylloxyphenyl)propane
- Persistence : NO DATA
- Degradability : NO DATA
*Dodecylphenol, branched
- Persistence : NO DATA
- Degradability : NO DATA
*Benzyl alcohol
- Persistence : log Kow = 1.1
- Degradability : NO DATA
*Neodecanoic acid 2,3-epoxypropyl ester
- Persistence : log Kow = 4.4 (20°C)
- Degradability : NO DATA

Bioaccumulative potential

*2,2-Bis(4'-glycidylloxyphenyl)propane

- Bioaccumulative potential : NO DATA
- Biodegradation : NO DATA
*Dodecylphenol, branched
- Bioaccumulative potential : NO DATA
- Biodegradation : NO DATA
*Benzyl alcohol
- Bioaccumulative potential : NO DATA
- Biodegradation : Biodegradability = 94 (%) 28 day (Aerobic, Activated Sludge)
*Neodecanoic acid 2,3-epoxypropyl ester
- Bioaccumulative potential : BCF = 148.8
- Biodegradation : Biodegradability = 7 ~ 8 (%) 28 day (OECD TG 301D)

Mobility in soil

*2,2-Bis(4'-glycidylloxyphenyl)propane
-NO DATA
*Dodecylphenol, branched
-NO DATA
*Benzyl alcohol
-NO DATA
*Neodecanoic acid 2,3-epoxypropyl ester
-NO DATA

Other adverse effects

*2,2-Bis(4'-glycidylloxyphenyl)propane
-NO DATA
*Dodecylphenol, branched
-NO DATA
*Benzyl alcohol
-NO DATA
*Neodecanoic acid 2,3-epoxypropyl ester
-NO DATA

13 | DISPOSAL CONSIDERATIONS



Disposal methods

Disposal material should keep in the airtight container, and consign according to Waste Material 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.

Special precautions for disposal

Business 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.



**UN number(IMDG CODE/IATA DGR)**

3082

Proper shipping nameENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(2,2-Bis(4'-glycidylloxyphenyl)propane)**Hazard class**

9

Packing group(IMDG CODE/IATA DGR)

III

Marine pollutant

be applicable

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-F

*2,2-Bis(4'-glycidylloxyphenyl)propane

- 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, branched

- 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

*Benzyl alcohol

- Information of EU Classification
- Classification : NO DATA
- Risk Phrases : NO DATA
- Safety Phrase : NO DATA
- U.S. Federal regulations
- OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
- CERCLA Section 103 (40CFR302.4) : notapplicable
- EPCRA Section 302 (40CFR355.30) : notapplicable
- EPCRA Section 304 (40CFR355.40) : notapplicable
- EPCRA Section 313 (40CFR372.65) : notapplicable
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

*Neodecanoic acid 2,3-epoxypropyl ester

- Information of EU Classification
- Classification : NO DATA
- Risk Phrases : NO DATA
- Safety Phrase : NO DATA
- U.S. Federal regulations
- OSHA PROCESS SAFETY (29CFR1910.119) : not applicable
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- EPCRA Section 302 (40CFR355.30) : not applicable
- EPCRA Section 304 (40CFR355.40) : not applicable
- EPCRA Section 313 (40CFR372.65) : not applicable
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

**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

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Prepared by:
Revision Date:

LEGGARI PRODUCTS LLC
JUNE 1, 2026

DISCLAIMER:

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