

Safety Data Sheet

Section 1 - Identification of the Substance/Mixture and of the Company

Product identification:

Clear Epoxy Resin Part 2

Company Identification:

Wizbe Industries
903 Western Avenue
Manchester ME 04351
Phone number: 1-888-281-2674

1.1 Product identifier

Product Name: Clear Epoxy Resin Part 2

Description: Cycloaliphatic Amine Curing Agent

Supplier: ComposiMold

1.2 Relevant identified uses of the preparation and uses identified against

Use: Hardener for epoxy coatings

For professional/industrial use only.

1.3 Details of the supplier of the safety data sheet

ComposiMold Telephone: 888 281-2674 **Fax:** 888 286-5208

903 Western Ave

Manchester, ME 04351

Web: www.composimold.com

Contact: info@composimold.com

Section 2 - Hazards Identification

2.1 Classification of the substance/mixture

2.1.1 Classification according to OSHA 29CFR1910.1200 and EU (EC) 1272/2008

Acute oral toxicity cat. 4 H302

Acute dermal toxicity cat. 4 H312

Skin corrosion cat. 1A H314

Skin sensitization cat. 1 H317

Acute toxicity/inhalation cat. 4 H332

Aquatic toxicity, chronic cat. 3 H412

2.2 Labeling elements

2.2.1 Labeling according to OSHA 29CFR1910.1200 and EU (EC) 1272/2008

Signal Word: Danger

Hazard statements

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe mist/vapors/spray.
- P264 Wash hands and skin contact areas thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- 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 / eye protection / face protection.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P312 Call a POISON CENTER or doctor if you feel unwell.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position 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.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up
- P501 Dispose of contents/container through a waste management company authorized by the local government.

2.3 OSHA GHS classification

This product is classified as hazardous as defined within the GHS OSHA Hazard Communication Standard 29CFR1910.1200.

Section 3 - Composition / Information on Ingredients

3.1 Substances

<u>Components</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>%</u>
C ₁₂ -C ₁₄ -Alkylglycidyl ether	68609-97-2	271-846-8	1-10

3.2 Mixtures

Component Concentration

- Benzyl alcohol 40-70%
- CAS No. 100-51-6
- EINECS No. 202-859-9

GHS/CLP: Acute tox. (oral) 4 - H302; Acute tox. (dermal) 4 - H312; Acute tox. (inhal.: vapor) 4 - H332;
Eye irritation 2A - H319; Aquatic acute 2 - H401
Product Code: ComposiCast Part B Revised: 2/10/2017

Isophoronediamine 30-60%

CAS No. 2855-13-2

EINECS No. 220-666-8

GHS/CLP: Acute tox. (oral) 4 - H302; Acute tox. (dermal) 4 - H312; Skin corr. 1B - H314;

Skin sens. 1 - H317; Aquatic acute 3 - H402; Aquatic chronic 3 - H412

Polyamine reaction product 15-40%

NJ TSNR 56013900-5023

EINECS No. (polymer)

GHS/CLP: Skin corr. 1A - H314; Eye damage 1 - H318

Section 4 - First Aid Measures

4.1 Description of First Aid measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Rinse immediately with plenty of water; remove contaminated clothing; wash thoroughly with soap and water for at least 15 minutes. If irritation, rash or other adverse effects develop, get medical attention immediately.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids. Get medical attention immediately.

In the event of swallowing: Do NOT induce vomiting unless advised by a physician. Rinse out mouth with water. Call nearest Poison Control Center or physician immediately.

In the event of exposure by inhalation: Move person to fresh air and keep at rest in a position comfortable for breathing; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful in contact with skin, Damage to nasal mucosa and throat, eye irritation.; can cause severe skin burns and eye damage; may cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Eye wash stations and emergency showers should be available.

Section 5 - Fire Fighting Measures

5.1 Extinguishing media

Carbon dioxide, alcohol resistant foam, dry chemical, water fog; use water spray to cool fire exposed containers.

5.2 Special hazards arising from the substance or mixture

Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors. Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide,

nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially in between 400°C and 700°C); smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

5.3 Advice for fire fighters: Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water jet as this may spread the area of the fire. Closed containers exposed to extreme heat may rupture due to pressure buildup.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area.

6.2 Environmental precautions

Halt the flow of material as soon as practical using appropriate barriers; turn containers leak-side up to stop the escape of liquid. Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

6.3 Methods and material for containment and cleaning up

Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent material; collect into suitable waste disposal containers. Reuse uncontaminated material when possible. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

6.4 Reference to other sections

For more information on exposure controls, personal protection and disposal, review data in section 8 and section 13 of this SDS.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes and clothing. Keep containers closed when not in use. Precautions apply to empty containers as well. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry area with adequate ventilation.

Incompatibilities: Do not store together with strong oxidizing agents.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits: None established.

NOTE: The AIHA/WEEL for Benzyl alcohol is 10 ppm (45 mg/m³)

8.1.2 Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference can be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents for the determination of hazardous substances.

8.2 Exposure Controls:

Follow good industrial workplace practices; do not eat, drink or smoke while handling; wash hands before breaks and at end of workshift; follow recommendations in this SDS.

8.2.1 Appropriate engineering controls

Ensure adequate ventilation through local exhaust to control airborne concentrations.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

Wear tight-fitting chemical safety goggles and/or face shield to prevent eye contact. Refer to OSHA Standard 29CFR1910.133 and European Standard EN166.

8.2.2.2 Skin protection

Wear impervious clothing as necessary to protect against product contact. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear.

8.2.2.3 Respiratory protection

Respiratory protection is required wherever exposure limits are exceeded; use a NIOSH approved organic vapor cartridge respirator following the guidelines of an established respiratory protection program in compliance with 29CFR1910.134. Note that air-purifying respirators are only recommended for use in atmospheres containing up to ten times the permissible exposure limit; if this higher level is exceeded, a supplied air respirator must be used; always consult respirator manufacturer instructions. Self-contained breathing apparatus should also be available in case of emergency.

8.2.2.4 Hand protection

Use suitable impervious neoprene or nitrile rubber gloves. When prolonged or frequently repeated contact may occur, glove material should have a breakthrough time that exceeds 480 minutes (breakthrough rating = 6).

Other Protective Equipment: The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular

intervals; use professional care in their selection, use and care

8.3 Environmental exposure controls

Prevent uncontrolled leakage or spillage if safe to do so. Do not allow product to enter drains or waterways; discharge to the environment should be avoided. Observe all precautions to prevent contamination of soil and waterways.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 General information:

Appearance: Liquid

Color: Clear to amber

Type of Odor: Amine-like

Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:

Boiling Point: No data available

Melting Point: Not determined

Flammability Classification: Combustible IIIB

Flash Point: >93°C (>200°F) (cc)

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Flammability Limits (lower/upper): No data available

Vapor Pressure: No data available

Vapor Density (Air=1): >1

Evaporation Rate (BuAc=1): <1

Octanol/Water Partition Coefficient (log Pow): Not determined

Specific Gravity: 1.00

Bulk Density: Not determined

Water Solubility: Negligible

pH: Alkaline

Viscosity: 425-475 cP @25°C

Explosive Properties: Not determined

Oxidizing Properties: Not determined

Molecular Formula: (mixture)

Average Molecular Weight (Daltons): No data

Section 10 - Stability and Reactivity

10.1 Stability and Reactivity

10.1 Reactivity

Reacts exothermically with amines and mercaptans liberating fumes and heat.

10.2 Stability

Stable under normal use and storage conditions.

10.3 Possibility of hazardous reactions

Mixtures with strongly acidic and strongly alkaline materials may produce an exothermic reaction. May autopolymerize at very high temperatures.

10.4 Conditions to avoid

Avoid elevated temperatures and sources of ignition.

10.5 Incompatible materials

Strong acids, bases, oxidizing agents, amines, epoxies, isocyanates. Will polymerize exothermically with amines, mercaptans and Lewis acids. Reaction with peroxides may result in violent decomposition.

10.6 Hazardous decomposition products

Thermal decomposition will generate carbon monoxide, carbon dioxide, aldehydes and nitrogen oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute Oral Toxicity: LD50(rat): 1300 mg/kg (ATE)

Acute Dermal Toxicity: LD50(rabbit): 1940 mg/kg (ATE)

Acute Inhalation Toxicity: LC 0 (rat)(7-hr): 0.15 mg/l

Skin Corrosion/Irritation: Draize: (rabbit, 24 hr): 3.4 - 5.7

Serious Eye Damage/Irritation: Causes serious eye damage.

Skin Sensitization (guinea pig): Sensitizer

Germ Cell Mutagenicity: Not classified as mutagenic.

Carcinogenicity: Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.

Reproductive Toxicity: NOEL, maternal: 200 mg/kg bw/d

Specific Target Organ Toxicity - single exposure (STOT-se): Product not classified based on available data.

Specific Target Organ Toxicity - repeated exposure (STOT-re): Product not classified based on available data.

Aspiration Hazard: Possible aspiration hazard (alkaline).

Potential Health Effects:

Skin Contact: Corrosive; harmful in contact with skin; may cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage; may cause an allergic reaction. may cause sensitization.

Eye Contact: Contact with vapors or liquid may cause tearing, blurred vision, severe irritation, possible chemical burns and corneal injury.

Ingestion: Harmful if swallowed; can cause severe and permanent damage to mouth, throat and stomach; may cause injury to the liver and kidneys. There may be vomiting, nausea, stomach pain.

Inhalation: Harmful if inhaled; can cause moderate to severe irritation of the respiratory tract. There may be vomiting, nausea, stomach pain, drowsiness, mental confusion.

Chronic Health Effects:

May cause sensitization by contact. Prolonged skin contact may cause irritation, rash, burns or dermatitis; repeated overexposure to vapors and/or liquid may injure the liver, kidneys and respiratory system. May aggravate individuals sensitized to amines.

Section 12 - Ecological Information

12.1 Toxicity

12.1.1 Acute/prolonged toxicity to fish

LC50 (Lepomis macrochirus)(96-hr): 16 mg/l (ATE)

12.1.2 Acute/prolonged toxicity to aquatic invertebrates

EC50 (Daphnia magna)(48-hr): 6.07 mg/l (ATE)

EC 0 (Daphnia magna): 10 mg/l

12.1.3 Acute/prolonged toxicity to aquatic plants

EC50 (Green algae)(72-hr): >50 mg/l (ATE)

IC50 (Pseudokirchneriella subcapitata)(72-hr): 844

12.1.4 Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants

Bacterial toxicity: >100 mg/l

12.1.5 Chronic toxicity to aquatic organisms

No data available.

12.1.6 General effect

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Not expected to be readily biodegradable.

12.3 Bioaccumulative potential

BCF 160 An appreciable bioaccumulation potential is to be expected where Log Pow is >3

12.4 Mobility in soil

No data available; do not allow product to enter soil/subsoil.

12.5 Results of PBT and vPvB assessment (EC reg. 453/2010)

Product not classified as Persistent, Bioaccumulative and Toxic

Product not classified as very Persistent or very Bioaccumulative

12.6 German WGK classification

WGK = 1 (self-assessment)

12.7 Other adverse effects

No other adverse effects are identified.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Disposal: Do not dump to ground, sewers or watercourses. Incinerate or otherwise dispose of

in compliance with all applicable federal, state and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

Container Disposal: Containers should be drained of all residual product prior to disposal.

Section 14 - Transport Information

14.1 Shipping description

DOT Proper Shipping Description:

UN2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)

Hazard Class 8 PG III

ERG No. 153

IMDG:

UN2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)

Hazard Class 8 PG III

EmS No. F-A, S-B

IATA:

UN2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, Polyamines)

Hazard Class 8 PG III

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or Mixture

SARA Title III Section 311/312 (40CFR370): Acute health hazard, chronic health hazard

SARA Title III Section 313 (40CFR372): No reportable components

CERCLA Status (40CFR302): No reportable components

(Release of a hazardous substance into the environment in an amount that equals or exceeds its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

RCRA Status (40CFR261): Not listed

OSHA/NTP/IARC Carcinogen Status: Not listed

TSCA Inventory Status: Reported/included

Canadian DSL Status: Reported/included

Canadian WHMIS Status: D2B, E

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

This product contains Epichlorohydrin CAS# 106-89-8 (<10 ppm).

REACH Annex XIV (SVHC)

No listed components

REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)

No listed components

REACH Status (EC 1907/2006): This material has been registered, pre-registered or is otherwise exempted from registration under the Registration, Evaluation and Authorization of

Chemical Substances.

Chemical safety assessment

Not available

Section 16 - Other Information

HMIS ratings: Health: **3**

Flammability: **1**

Physical Hazard: **0**

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process.)

National chemical inventories

All components of this product are listed on the following chemical substance inventories:

TSCA (USA)

DSL (Canada)

EINECS (Europe)

ENCS (Japan)

ECL (Korea)

AICS (Australia)

PICCS (Philippines)

IECSC (China)

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

ADR International carriage of dangerous goods by Road

AICS Australian Inventory of Chemical Substances

AIHA American Industrial Hygiene Association

BfR Bundesinstitut für Risikobewertung recommendations for food contact materials

BCF Bioconcentration Factor

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CLP Classification, Labeling and Packaging regulation

DOT Department of Transportation

DSL Domestic Substances List

EINECS European Inventory of Existing Chemical Substances

ECL Existing Chemicals List (Korea)

ENCS Existing and New Chemical Substances Inventory (Japan)

EN 689 Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy

ERG Emergency Response Guide

GHS Globally Harmonized System

HMIS Hazardous Materials Information System

IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

IDLH Immediately Dangerous to Life and Health

IMDG International Maritime Dangerous Goods
LD50 Lethal dose to 50% of test animal population
MAK Maximale Arbeitsplatz Konzentration
NOAEL No observable adverse effect level
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety & Health Administration
PBT Persistent, Bioaccumulative and Toxic
vPvB Very Persistent and Very Bioaccumulative
PEL Permissible exposure limit
PICCS Philippine Inventory of Commercial Chemical Substances
PNEC Predicted No Effect Concentration
REACH Registration, evaluation and authorization of chemical substances
RID International carriage of dangerous goods by Rail
SARA Superfund Amendments and Reauthorization Act
STEL Short Term Exposure Limit
SVHC Substance of Very High Concern
TLV Threshold Limit Value
TSCA Toxic Substances Control Act
TWA Time Weighted Average
VOC Volatile organic compound
WEEL Workplace Environmental Exposure Level
WGK Wassergefährdungsklasse (Water Hazard Class)
WHMIS Workplace Hazardous Material Identification System

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