

Safety Data Sheet

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

Product identification:

Clear Epoxy Resin 1

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 1

Description: Liquid Epoxy Resin

Supplier: ComposiMold

1.2 Relevant identified uses of the preparation and uses identified against

Use: Resin for coatings and adhesives

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

Skin irritation, cat. 2 H315

Skin sensitization, cat. 1 H317

Eye irritation, cat. 2 H319

Aquatic chronic, cat. 2 H411

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2.2 Labeling elements

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

Signal Word: Warning

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapors/spray.
P264 Wash hands and skin contact areas thoroughly after handling.
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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
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.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
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

Component Concentration

Bisphenol-A/epichlorohydrin epoxy resin 100%
CAS No. 25068-38-6
EINECS No. 500-033-5 (NLP)
REACH Reg. No.: 01-2119456619-26-xxxx
GHS/CLP: Skin irrit. 2 - H315; Skin sens. 1 - H317; Eye irrit. 2 - H319; Aquatic chronic 2 - H411

3.2 Mixtures

Not applicable
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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: Drench the affected area immediately with plenty of water; remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes.

Seek medical attention if irritation, rash or other adverse effects occur.

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 if symptoms persist.

In the event of swallowing: DO NOT induce vomiting; rinse mouth then drink plenty of water; get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop.

4.2 Most important symptoms and effects, both acute and delayed

Skin irritation, allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote; 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 fireexposed containers. Do not use direct water stream which may spread fire.

5.2 Special hazards arising from the substance or mixture

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics; 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 fire fighting clothing and positive pressure selfcontained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; 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:

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

Absorb with sand, diatomaceous earth or universal binders and collect into suitable disposal container. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

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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 of workplace and storage areas; avoid skin contact; do not breathe mist, vapors, spray; use recommended personal protective equipment; wash thoroughly after handling. Do not eat, drink or smoke in the work area. Avoid use of electric band heaters (failures of such heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire). Never apply a direct flame to any container of product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Keep container tightly closed. Recommended storage temperature: 10-35°C (50-95°F).

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits: OSHA/PEL: None established

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.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

Use safety glasses with side shields. 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

Although no exposure limits have been established, respiratory protection may be of use if any respiratory irritation or discomfort is noted; if the material is processed at elevated temperatures without adequate ventilation, it may be necessary to wear an air-purifying respirator with organic Product Code: ComposiCast Part A Revised 2/10/17 vapor cartridge; respirator use should follow the guidelines of an established respiratory protection program in compliance with 29CFR1910.134.

8.2.2.4 Hand protection

Wear nitrile rubber, nitrile, neoprene, PVC or other suitable impervious gloves; refer to European Standard EN374. Gloves selected must have a breakthrough rating appropriate for the work shift (>480 minutes).

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.

8.3 Environmental exposure controls

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: Light yellow

Type of Odor: Faint to slight epoxy odor

Odor Threshold: Not determined

9.1.2 Important health, safety and environmental information:

Initial Boiling Point: >260° C (>500° F)

Melting Point: Not applicable

Flammability Classification: Combustible IIIB

Flash Point: 252°C (486°F) (PMCC)

Autoignition Temperature: >300° C (>572° F)

Decomposition Temperature: Not determined

Flammability Limits (lower/upper): Not determined

Vapor Pressure: <0.00001 kPa @ 20°C (68°F)

Vapor Density (Air=1): >1

Evaporation Rate (BuAc=1): <1

Octanol/Water Partition Coefficient (log P_{ow}): 3

Specific Gravity: 1.16

Bulk Density: 9.66 lbs/gal

Water Solubility: Nil (<0.1%)

pH: Approximately neutral (1:1 in water)

Viscosity: 11,000-14,500 cP @ 25°C

Explosive Properties: Not determined

Oxidizing Properties: Not determined

Molecular Formula: polymer

Average Molecular Weight (Daltons): <700

Section 10 - Stability and Reactivity

10.1 Stability and Reactivity

10.1 Reactivity

No dangerous reaction is known under normal use and storage conditions.

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10.2 Stability

Stable under normal use and storage conditions. Upon prolonged storage the material may crystallize which is a reversible condition; crystallized material can be liquefied back by heating slowly to 50° C for 6-24 hours.

10.3 Possibility of hazardous reactions

Masses of more than one pound (0.5 kg) product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize in contact with Sodium hydroxide.

10.4 Conditions to avoid

Avoid elevated temperatures; potentially violent decomposition can occur above 350°C.

10.5 Incompatible materials

Strong oxidizing agents, acids, alkalis, amines, mercaptans.

10.6 Hazardous decomposition products

Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenolics.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute Oral Toxicity: LD50(rat): >5000 mg/kg

Acute Dermal Toxicity: LD50(rabbit): 20,000 mg/kg

Skin Corrosion/irritation (rabbit): Causes slight skin irritation

Serious Eye Damage / Eye Irritation (rabbit): Causes serious eye irritation; corneal injury is not likely.

Skin Sensitization (guinea pig): Causes allergic skin reactions.

Germ Cell Mutagenicity: Not classified based on available data.

Carcinogenicity: Not classified based on available data. Not listed by IARC, NTP, OSHA.

Reproductive Toxicity: Not classified based on available data.

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

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

Aspiration Hazard: Not classified based on available data.

Potential Health Effects:

Skin: Causes mild skin irritation; may cause sensitization; once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Eyes: Causes serious eye irritation; pain, irritation, watering, redness

Ingestion: Low toxicity; incidental ingestion of small amounts not anticipated to be harmful.

Inhalation: Low volatility; not expected to be a significant route of exposure.

Potential Chronic Health Effects:

90-Day(rat) Repeated Dose Oral Toxicity Study NOAEL: 50 mg/kg

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Section 12 - Ecological Information

12.1 Toxicity

12.1.1 Acute/prolonged toxicity to fish

LC50 (Fathead minnow)(96-hr): 3.1 mg/l

12.1.2 Acute/prolonged toxicity to aquatic invertebrates

EC50 (Daphnia magna)(24-hr): 3.6 mg/l

12.1.3 Acute/prolonged toxicity to aquatic plants

No data available

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

No data available

12.1.5 Chronic toxicity to aquatic organisms

No data available

12.1.6 General effect

Note that product is essentially water insoluble; not expected to present a marine hazard.

12.2 Persistence and degradability

Biodegradation rate: 5% after 28 days (not readily biodegradable)

12.3 Bioaccumulative potential

BCF = 31, Log P_{ow} = 3 (low potential to bioaccumulate in aquatic organisms)

12.4 Mobility in soil

No data available

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

Not classified as Persistent, Bioaccumulative and Toxic
Not classified as very Persistent or very Bioaccumulative

12.6 German WGK classification

No data available

12.7 Other adverse effects

No data available.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Disposal: Do not dump to ground, sewers or watercourses. Reuse uncontaminated material when possible. All methods of disposal must be 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; empty/clean containers should be recycled; incinerate or landfill when recycling is not feasible.
Product Code: ComposiCast Part A Revised 2/10/17

Section 14 - Transport Information

14.1 Shipping description

DOT: Not regulated as hazardous for transport

IMDG Proper Shipping Description:

UN3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

Hazard Class: 9

Packing Group: PG III

EmS No.: F-A, S-F

Marine Pollutant: Yes

IATA Proper Shipping Description:

UN3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

Hazard Class: 9

Packing Group: 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

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

CERCLA Status (40CFR302): No Reportable Quantity components

TSCA Inventory Status: Reported/included

Canadian DSL Status: Reported/included

Canadian WHMIS Classification: D2B

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

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

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 is a polymer exempt from registration under the Registration, Evaluation and Authorization of Chemical Substances. The monomer constituents

are registered; see Section 1 for OR details.

Chemical safety assessment

Not available

Section 16 - Other Information

HMIS ratings: Health: **2**

Flammability: **1**

Reactivity: **0**

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(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.)

Synonyms:

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane
Bisphenol-A, diglycidyl ether
Epichlorohydrin-2,2-bis(4-hydroxyphenyl)propane copolymer
EU Index No. 603-074-00-8

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)
NZIoC (New Zealand)
ECSI (Taiwan)

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists
ADR International carriage of dangerous goods by Road
AICS Australian Inventory of Chemical Substances
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
Product Code: ComposiCast Part A Revised 2/10/17
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
WGK Wassergefährdungsklasse (Water Hazard Class)
WHMIS Workplace Hazardous Material Identification System

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