

# SAFETY DATA SHEETS

# EPOXY ONE PART B

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Epoxy One Part B  
MANUFACTURER: Incredible Products LLC. ADDRESS: 1101 Lincoln Ave, Wapakoneta, OH 45895  
INFORMATION PHONE: 567-297-3700 EMERGENCY PHONE: 800-424-9300  
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## SECTION 2: HAZARDOUS IDENTIFICATION

### Classification:

Skin Irritation: Category 2  
Eye Irritation: Category 2B  
Respiratory Sensitizer (Solid/Liquid) - N/A  
Skin Sensitizer: Category 1B  
Carcinogenicity: Category 2

Signal Word: Danger

### Hazardous Statements- Health:

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- General:

P101- If medical advice is needed, have product container or label at hand  
P102- Keep out of reach of children  
P103- Read label before use

### Precautionary Statements- Prevention:

P210 - Keep away from heat/sparks/open flames/hot surfaces.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P284 - <In case of inadequate ventilation> wear respiratory protection.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.

### Precautionary Statements- Response:

P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
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 eye irritation persists: Get medical advice/attention.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.  
P321 - Specific treatment (see section 4 on this SDS).  
P362 + P364 - Take off contaminated clothing. And wash it before reuse.  
P308 + P313 - IF exposed or concerned: Get medical advice/attention.

### Precautionary Statements- Storage:

P405- Store locked up

### Precautionary Statements- Disposal:

P501 - Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

### MIXTURES

CHEMICAL NAME	CAS. NO	%
Isophorone diamine	2855-13-2	25-35
Polyoxypropylene diamine	9046-10-0	10-20
Benzyl Alcohol	100-51-6	15-25
Phenol, 4-nonyl-, branched	84852-15-3	25-35
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	5-15
Other components below reportable levels		≤ 5

## SECTION 4: FIRST AID MEASURES

### INHALATION:

Loosen clothing as necessary and position the individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary, or if breathing is irregular or stopped. If breathing is difficult, give oxygen. Immediately get medical assistance. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

### SKIN CONTACT:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. Get medical assistance. Flush skin and hair with running water and soap.

### EYE CONTACT:

Remove the source of exposure or move the person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention. Avoid direct contact. Wear chemical protective gloves, if necessary.

### INGESTION:

Keep the respiratory tract clear. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Contact a physician or Poison Center immediately. Take the victim immediately to hospital.

## SECTION 5: FIRE FIGHTING MEASURES

### SUITABLE EXTINGUISHING MEDIA:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Sand or earth may be used for small fires only.

### UNSUITABLE EXTINGUISHING MEDIA:

Do not use a direct water stream which may spread fire.

### Specific Hazards in Case of Fire:

Thermal decomposition can lead to release of irritating gases and vapors. NFPA Class III B combustible liquid. Containers may explode when heated. Keep product and empty container away from sources of ignition and heat. Do not allow run-off from fire fighting to enter drains or water courses. Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result. In the event of fire and/or explosion do not breathe fumes. On combustion, may emit toxic fumes of carbon monoxide (CO), phenolics, carbon dioxide, and others.

### FIRE-FIGHTING PROCEDURES:

Isolate immediate hazard areas and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from the immediate hazard area if it can be done safely. Do not use a high volume water jet as this may spread the area of the fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **SPECIAL PROTECTIVE ACTIONS:**

Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with a full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required. Care should always be exercised in dust/mist areas.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **Emergency Procedure:**

Keep unnecessary people away; isolate the hazard area and deny entry. Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Clean up immediately by neutralizing with acid and soaking up with an inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and containerize for disposal. Follow proper disposal methods. Do not flush into surface water or sanitary sewer systems. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

#### **Recommended Equipment:**

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

#### **Personal Precautions:**

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

#### **Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers

## **SECTION 7: HANDLING AND STORAGE**

#### **GENERAL:**

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Employee education and training in safe handling of this material is required under OSHA hazard communication standard. Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.

#### **VENTILATION REQUIREMENTS:**

Use only with adequate ventilation to control air contaminants to their exposure limits.

The use of local ventilation is recommended to control emissions near the source. Air circulation and exhaustion of isocyanate vapors must be maintained until the coatings have fully cured to insure that no potential health hazard remains. Exposure to vapors of heated isocyanates can be extremely dangerous.

#### **STORAGE ROOM REQUIREMENTS:**

Combustible liquids. Store in a cool, dry area. Keep away from open flames, hot surfaces, and sources of ignition. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep the container tightly sealed. Store away incompatible materials. Keep away from strong acids. Electrical installations/working materials must comply with the technological safety standards. Reacts with mild steel, galvanized steel/zinc to produce hydrogen gas which may form an explosive mixture with air.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **EYE PROTECTION:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for the entire face, use it in combination with a face shield.

#### **SKIN PROTECTION:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

#### RESPIRATORY PROTECTION:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect workers, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. When airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

#### APPROPRIATE ENGINEERING CONTROLS:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### SPECIFIC GRAVITY:

1.14

#### BOILING POINT:

404.6°

#### EVAPORATION RATE:

N/A

#### VAPOR DENSITY:

N/A

#### SOLUBILITY IN H2O:

N/A

## SECTION 10: STABILITY AND REACTIVITY

#### STABILITY:

Stable under normal conditions

#### CONDITIONS TO AVOID:

Contact with incompatible materials

#### HAZARDOUS REACTIONS/POLYMERIZATION:

Will not occur

#### INCOMPATIBLE MATERIALS:

Strong acids. Peroxides. Phenols. Bases. Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Ammonia. Carbon monoxide. Carbon dioxide. Aldehydes. Ketones. Nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Inhalation:** Toxic if inhaled.

**Skin Contact:** Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.

**Eye contact:** Causes serious eye damage.

**Ingestion:** Causes digestive tract burns. Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

**Acute toxicity:** Toxic if inhaled. Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 2855-13-2)		
<b>Acute Oral</b> LD50	Rat	1030 mg/kg
Benzyl alcohol (CAS 100-51-6)		
<b>Acute Dermal</b> LD50	Rabbit	> 2000 mg/kg, 24 hours
<b>Inhalation</b> LD50	Rat	8.8 mg/l, 4 hours
<b>Oral</b> LD50	Rat	1230 mg/kg

Phenol, 4-nonyl-, branched (CAS 84852-15-3)

**Acute**

**Oral**

LD50 Rat 300-2000 mg/kg

Poly (oxypropylene) diamine (CAS 9046-10-0)

**Acute**

**Dermal**

LD50 Rabbit 2980 mg/kg, 24 hours

**Oral**

LD50 Rat 2627 mg/kg

Standard reaction product Bisphenol A-Epichlorohydrin (CAS 25068-38-6)

**Acute**

**Oral**

LD50 Rat >500 mg/kg

**Skin corrosion/irritation:** Serious eye damage/eye irritation  
**Respiratory or skin sensitization:** Causes severe skin burns and eye damage.  
 Causes serious eye damage.

**Respiratory sensitization:** N/A

**Skin sensitization:** May cause an allergic skin reaction.

**Germ cell mutagenicity:** N/A

**Carcinogenicity:** N/A

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053):** Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not listed.

**Reproductive toxicity:** Suspected of damaging the unborn child.

**Specific target organ toxicity -single exposure:** N/A

**Specific target organ toxicity -repeated exposure:** Causes damage to organs (lungs) through prolonged or repeated exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Component	Test	Species	Test Results
Benzyl alcohol (CAS 100-51-6)	LC50	Fish Lepomis macrochirus (Bluegill)	10mg/l-96 hours
	EC50, Daphnia and other aquatic invertebrates	Daphnia magna (water flea)	55mg/l-24 hours
Polyoxypropylene diamine (CAS 9046-10-0)	EC50, Fish	Oncorhynchus mykiss (rainbow trout)	>15 mg/l-96 hours
	LC50, Fish	Daphnia magna (water flea)	772.14 mg/l-48 hours
	EC50, Daphnia and other aquatic invertebrates		80 mg/l-48 hours
Isophorone diamine (CAS 2855-13-2)	EC50, Daphnia and other aquatic invertebrates	Acartia tonsa	418.34 mg/l-48 hours
	ErC50, Algae	Selenastrum capricornutum (green algae)	15 mg/l-72 hours
	EbC50, Algae	Skeletonema costatum	142.72 mg/l-72 hours
	LC50, Fish	Pimphales promelas (fathead minnow)	70 mg/l-96 hours
	EC50, Crustacea		17.4 mg/l-48 hours
	EC50, Algae or other aquatic plants		37 mg/l-72 hours
Phenol, 4-nonyl, branched (CAS 84852-15-3)	EC10, Algae or other aquatic plants	Pseudokirchneriella subcapitata (green algae)	3.1 mg/l-72 hours
	NOEC, Algae or other aquatic plants		1.5 mg/l-72 hours
	LC50, Fish		>0.1-1 mg/l-96 hours
	EC50, Algae		>0.1-1 mg/l-72 hours
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers (CAS 25068-38-6)	NOEC, Algae	Lemna minor (duckweed)	>0.1-1 mg/l-96 hours
	NOEC, Fish	Oncorhynchus mykiss (rainbow trout)	0.006 mg/l-91 days
	NOEC, Aquatic Invertebrates	Daphnia magna (water flea)	0.024 mg/l-21 days
	LC50, Fish	Oncorhynchus mykiss (rainbow trout)	2 mg/l-96 hours
	EC50, Aquatic Invertebrates	Daphnia magna (water flea)	1.8 mg/l-48 hours
	ErC50, Algae/Aquatic Plants	Scenedesmus capricornutum (fresh water algae)	11 mg/l-72 hours
	IC50, Bacertia	Daphnia magna (water flea)	>42.6 mg/l-18 hours
MATC, aquatic invertebrates	0.55 mg/l-21 days		

**Ecotoxicity**

Very toxic to aquatic life. Very toxic to aquatic life with long term effects.

**Persistence and degradability**

Readily biodegradable.

**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

Polyoxypropylene diamine 1.34

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers 3.242

**Mobility in soil**

No data available.

**Other adverse effects** The product contains VOCs which have a photochemical ozone creation potential.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT</b>	<b>UN number</b>	UN2735
	<b>UN proper shipping name</b>	Amines, liquid, Corrosive, N.O.S. (POLYOXYPROPLENEDIAMINE)
	<b>Transport hazard class(es)</b>	
	<b>Class</b>	8
	<b>Subsidiary risk</b>	-
	<b>Label(s)</b>	CORROSIVE
	<b>Packaging Group</b>	
	<b>Environmental hazards</b>	Yes
	<b>Corrosive</b>	
	<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	<b>Special provisions</b>	-
	<b>Packaging exceptions</b>	-
	<b>Packaging non bulk</b>	-
<b>Packaging bulk</b>	-	
<b>IATA</b>	<b>UN number</b>	UN2735
	<b>UN proper shipping name</b>	Amines, liquid, Corrosive, N.O.S. (POLYOXYPROPLENEDIAMINE)
	<b>Transport hazard class(es)</b>	
	<b>Class</b>	8
	<b>Subsidiary risk</b>	-
	<b>Packaging Group</b>	III
	<b>Environmental hazards</b>	Yes
	<b>ERG Code</b>	153
	<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
	<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	856	
<b>Cargo aircraft only</b>	852	
<b>IMDG</b>	<b>UN number</b>	UN2735
	<b>UN Shipping name</b>	Amines, liquid, Corrosive, N.O.S. (POLYOXYPROPLENEDIAMINE)
	<b>Transport hazard class(es)</b>	
	<b>Class</b>	8
	<b>Subsidiary risk</b>	-
	<b>Packaging Group</b>	III
	<b>Environmental hazards</b>	
	<b>Marine pollutant</b>	No

## SECTION 15: REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Phenol, 4-nonyl-, branched (CAS 84852-15-3)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Polypropylene oxide (CAS 75-56-9) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**Classified hazard categories**

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

Phenol, 4-nonyl-, branched (CAS 84852-15-3)

## SECTION 16: OTHER INFORMATION

**DISCLAIMER:**

The information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.