

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C944 B  
**Product Name:** Ultraweld Epoxy Steel - Hardener
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- |                          |   |                      |               |
|--------------------------|---|----------------------|---------------|
| <b>Company Name:</b>     | CYCLO INDUSTRIES, INC.<br>902 SOUTH US HIGHWAY 1<br>JUPITER, FL 33477 | <b>Phone Number:</b> | (800)843-7813 |
| <b>Web site address:</b> | www.cyclo.com   |                      |               |
| <b>Information:</b>      | First Aid Emergency (Outside U.S.)                                    |                      | (312)906-6194 |
- 1.4 Emergency telephone number:**
- |                           |                         |               |
|---------------------------|-------------------------|---------------|
| <b>Emergency Contact:</b> | First Aid Emergency     | (800)752-7869 |
|                           | CHEMTREC (703) 527-3887 | (800)424-9300 |

### Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
**Acute Toxicity: Inhalation, Category 3**  
**Acute Toxicity: Oral, Category 3**  
**Acute Toxicity: Skin, Category 3**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Skin Sensitization, Category 1**  
**Carcinogenicity, Category 1B**
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:**

H301: Toxic if swallowed.  
H311: Toxic in contact with skin.  
H331: Toxic if inhaled.  
H314: Causes severe skin burns & eye damage.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H350: May cause cancer.  
H411: Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:**

P271: Use only outdoors or in a well-ventilated area.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

- P361+364: Take off immediately all contaminated clothing and wash it before reuse.  
 P362+364: Take off contaminated clothing and wash it before reuse.  
 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.  
 P281: Use personal protective equipment as required.

### GHS Response Phrases:

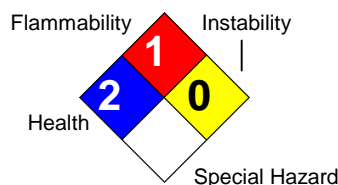
- P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P363: Wash contaminated clothing before reuse.  
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

### GHS Storage and Disposal Phrases:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulation.  
 P403+233: Store container tightly closed in well-ventilated place.

## 2.2.2 Labeling according to Directive 1999/45/EC:

### Hazard Rating System:



## 2.3 Adverse Human Health Effects and Symptoms:

## Section 3. Composition/Information on Ingredients

Section 3. Composition/Information on Ingredients				
CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	10.0 -15.0 %	202-013-9 603-069-00-0	Xn; R22-36/38 Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2A: H319
67843-74-7	(S)-(+)-Epichlorohydrin	< 2.0 %	614-150-5 NA	T; R10-23/24/25-34-43-45 Flam. Liq. 3: H226 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Skin Corr. 1B: H314 Skin Sens. 1: H317 Acute Tox.(I) 3: H331 Carcinogen 1B: H350



### Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** If swallowed, do not induce vomiting. Have patient drink several glasses of water or milk. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If breathing is difficult, administer oxygen. Keep person warm and quiet. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of skin contact, remove contaminated clothing. Wash exposed area with soap and water. Launder clothing before reuse. Call physician immediately if adverse reaction occurs.

### Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Water fog, carbon dioxide, dry chemical.
- 5.2 Flammable Properties and Hazards:** No data available.  
**Flash Pt:** 480.00 F (248.9 C) Method Used: Pensky-Marten Closed Cup  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire-exposed containers cool until fire is out. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

### Section 6. Accidental Release Measures

- 6.3 Methods and Material For Containment and Cleaning Up:** Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material.  
 Large Spill: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent material and shoveled into containers.

### Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapors, liquid and/or solid) all hazard precautions given in the data sheet must be observed. Keep out of the reach of children.

### Section 8. Exposure Controls/Personal Protection

**8.1 Exposure Parameters:**

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Pheno 	No data.	No data.	No data.
67843-74-7	(S)-(+)-Epichlorohydrin	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Pheno 	No data.	No data.	No data.
67843-74-7	(S)-(+)-Epichlorohydrin	No data.	No data.	No data.



# SAFETY DATA SHEET

## Ultraweld Epoxy Steel - Hardener

### 8.2 Exposure Controls:

**8.2.1 Engineering Controls (Ventilation etc.):** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

### 8.2.2 Personal protection equipment:

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses.

**Protective Gloves:** Wear resistant gloves such as natural rubber.

**Other Protective Clothing:** To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory Equipment (Specify Type):** If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

## Section 9. Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Clear, viscous liquid.

**Melting Point:** No data.

**Boiling Point:** > 500.00 F (260.0 C)

**Flash Pt:** 480.00 F (248.9 C) Method Used: Pensky-Marten Closed Cup

**Evaporation Rate:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** .030 MM\_HG at 77.0 F (25.0 C)

**Vapor Density (vs. Air = 1):** > 1

**Specific Gravity (Water = 1):** 1.168 at 68.0 F (20.0 C)

**Solubility in Water:** Negligible

**Autoignition Pt:** No data.

### 9.2 Other Information

**Percent Volatile:** < 1.0 % by weight.

## Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.

**10.2 Stability:** Unstable [ ] Stable [ X ]

**10.3 Conditions To Avoid - Hazardous Reactions:** No data available.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**10.4 Conditions To Avoid - Instability:** No data available.

**10.5 Incompatibility - Materials To Avoid:** Amines, strong alkalis, strong mineral acids, strong oxidizing agents.

**10.6 Hazardous Decomposition Or Byproducts:** May form carbon dioxide and carbon monoxide, various hydrocarbons.



**Section 11. Toxicological Information**

**11.1 Information on Toxicological Effects:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	n.a.	n.a.	n.a.	n.a.
67843-74-7	(S)-(+)-Epichlorohydrin	n.a.	n.a.	n.a.	n.a.

**Section 12. Ecological Information**

**Section 13. Disposal Considerations**

**13.1 Waste Disposal Method:** Dispose of contents/container in accordance with local/regional/national/international regulation.

**Section 14. Transport Information**

**14.1 LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Consumer Commodity  
**DOT Hazard Class:** ORM-D                      ORM-D  
**UN/NA Number:**

**14.1 LAND TRANSPORT (European ADR/RID):**

**ADR/RID Shipping Name:**  
**UN Number:**  
**Hazard Class:**                      N.A.

**14.2 MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Environmentally Hazardous Substance, Liquid, n.o.s. (Epoxy Resin), Ltd Qty (Bisphenol-a Based Epoxy Resin)  
**UN Number:**                      3082                      **Packing Group:**                      III  
**Hazard Class:**                      N.A.                      **IMDG Classification:**                      9  
**Marine Pollutant:**                      No

**14.3 AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Environmentally Hazardous Substance, Liquid, n.o.s. (Epoxy Resin), Ltd Qty  
**UN Number:**                      3082                      **Packing Group:**                      III  
**Hazard Class:**                      N.A.                      **IATA Classification:**                      9

**Section 15. Regulatory Information**

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	No	No	No
67843-74-7	(S)-(+)-Epichlorohydrin	No	No	No

**CAS #                      Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
67843-74-7	(S)-(+)-Epichlorohydrin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No



# SAFETY DATA SHEET

## Ultraweld Epoxy Steel - Hardener

Revision: 05/20/2014

Supersedes Revision: 07/16/2012

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
90-72-2	2,4,6-Tris(Dimethylaminomethyl)Phenol	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
67843-74-7	(S)-(+)-Epichlorohydrin	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: Yes

**European Community Hazard Symbol codes:**

**European Community Risk and Safety Phrases:**

No data available.

### Section 16. Other Information

**Revision Date:** 05/20/2014

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:**

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