



# MATERIAL SAFETY DATA SHEET

## Ultraweld Epoxy Steel - Hardener

CYCLO INDUSTRIES, INC.  
401 MAPLEWOOD DRIVE  
SUITE 18  
JUPITER, FL 33458



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### 1. Product and Company Identification

**Product Code:** C-944 B  
**Product Name:** Ultraweld Epoxy Steel - Hardener  
**Manufacturer Information**  
**Company Name:** CYCLO INDUSTRIES, INC.  
**Phone Number:** (800)843-7813  
**Fax Number:** (561)745-3867  
**Emergency Contact:** First Aid Emergency (800)222-1222  
**Alternate Emergency Contact:** Chemtrec (703) 527-3887 (800)424-9300  
**Information:** First Aid Emergency (Outside U.S.) (312)906-6194  
**Web site address:** www.cyclo.com  
**Email address:** ehs@cyclo.com

### 2. Hazards Identification

#### Emergency Overview

No data available.

#### Health Hazards (Acute and Chronic)

Eyes: May cause eye irritation on prolonged or repeated exposure.

Skin: May cause skin irritation on prolonged or repeated exposure.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled in large amounts or for prolonged periods.

#### Signs and Symptoms Of Exposure

No data available.

### 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	10.0 -15.0 %
2. (S)-(+)-Epichlorohydrin	67843-74-7	< 2.0 %

### 4. First Aid Measures

#### Emergency and First Aid Procedures

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. In case of eye contact, flush eyes with water for at least 15 minutes while holding eyelids apart. 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.



## 5. Fire Fighting Measures

**Flash Pt:** 480.00 F (248.9 C) Method Used: Pensky-Marten Closed Cup  
**Explosive Limits:** LEL: No data. UEL: No data.

### Special Fire Fighting Procedures

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.

### Unusual Fire and Explosion Hazards

No data available.

### Hazardous Combustion Products

May form carbon dioxide and carbon monoxide, various hydrocarbons.

### Suitable Extinguishing Media

Water fog, carbon dioxide, dry chemical.

### Unsuitable Extinguishing Media

No data available.

## 6. Accidental Release Measures

### Steps To Be Taken In Case Material Is Released Or Spilled

**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.

## 7. Handling and Storage

### 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.

## 8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No data.	No data.	No data.
2. (S)-(+)-Epichlorohydrin	67843-74-7	No data.	No data.	No data.

### 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.

### 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.

### Ventilation

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).



## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	> 500.00 F (260.0 C)
<b>Autoignition Pt:</b>	No data.
<b>Flash Pt:</b>	480.00 F (248.9 C) Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Specific Gravity (Water = 1):</b>	1.168 at 68.0 F (20.0 C)
<b>Bulk density:</b>	No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	.030 MM_HG at 77.0 F (25.0 C)
<b>Vapor Density (vs. Air = 1):</b>	> 1
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	No data.
<b>Solubility in Water:</b>	Negligible
<b>Percent Volatile:</b>	No data.
<b>Heat Value:</b>	No data.
<b>Particle Size:</b>	No data.
<b>Corrosion Rate:</b>	No data.
<b>pH:</b>	No data.

**Appearance and Odor**

Clear, viscous liquid.

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability</b>	No data available.
<b>Incompatibility - Materials To Avoid</b>	Amines, strong alkalis, strong mineral acids, strong oxidizing agents.
<b>Hazardous Decomposition Or Byproducts</b>	May form carbon dioxide and carbon monoxide, various hydrocarbons.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions**

No data available.

## 11. Toxicological Information

No data available.

**Carcinogenicity/Other Information**

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	n.a.	n.a.	n.a.	n.a.
2. (S)-(+)-Epichlorohydrin	67843-74-7	n.a.	n.a.	n.a.	n.a.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

**Waste Disposal Method**

Disposal should be made in accordance with federal, state and local regulations.

## 14. Transport Information

### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** Non-Regulated

### MARINE TRANSPORT (IMDG/IMO)

**IMDG/IMO Proper Shipping Name** Polyamines, liquid, corrosive, n.o.s. Ltd. Qty.

**UN Number:** 2735

**Packing Group:** III

**IMDG Classification:** 8

## 15. Regulatory Information

### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No	No	No	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No	No	No	No

### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No	No	Inventory	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No	No	No	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No	No	Yes - No	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No	No	Yes - No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No

### International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. 2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No	No	No
2. (S)-(+)-Epichlorohydrin	67843-74-7	No	No	No

### SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. \* indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. \*\* indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

### TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions



# MATERIAL SAFETY DATA SHEET

## Ultraweld Epoxy Steel - Hardener

<b>8D:</b>	Health and Safety Data Reporting Rules
<b>8D TERM:</b>	Health and Safety Data Reporting Rule Terminations
<b>12(b):</b>	Notice of Export

### Other Important Lists:

<b>CWA NPDES:</b>	EPA Clean Water Act NPDES Permit Chemical
<b>CAA HAP:</b>	EPA Clean Air Act Hazardous Air Pollutant
<b>CAA ODC:</b>	EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
<b>CA PROP 65:</b>	California Proposition 65
<b>CA TAC:</b>	California AB 1807 - Toxic Air Contaminants
<b>CA Title 8:</b>	California Hazardous Substances List: Title 8, Sec. 339
<b>MI CMR:</b>	Michigan Critical Materials Register
<b>MI Part 5:</b>	Michigan DEQ WRP Part 5 Pollutants List
<b>NC TAP:</b>	North Carolina Toxic Air Pollutants
<b>NJ EHS:</b>	New Jersey Environmental Hazardous Substances List
<b>NY Part 597:</b>	New York Part 597 List of Hazardous Substances
<b>PA HSL:</b>	Pennsylvania Hazardous Substances List
<b>SC TAP:</b>	South Carolina Toxic Air Pollutants
<b>WI Air:</b>	Wisconsin Reportable Air Contaminants

### International Regulatory Lists:

<b>Canadian DSL:</b>	Canada Domestic Substances List
<b>Canadian NDSL:</b>	Canada Non-Domestic Substances List
<b>Taiwan TCSCA:</b>	Taiwan Toxic Chemical Substances Control Act of 1986

## 16. Other Information

### Company Policy or Disclaimer

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