

CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Cyclo Industries, LLC considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals.

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

Product Name: Cyclo[®] UltraWeld[®] Epoxy Steel Cold Welding Compound, Stock No. C-944 (Part A - Steel)

Product Use: Use on aluminum, steel, bronze, brass, copper, ceramics, wood and more

Manufactured by: Cyclo Industries, LLC
10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881
Telephone: (561) 775-9600

First Aid Emergency: (800) 752-7869 or (312) 906-6194

Shipping Emergency: (800) 424-9300 or (703) 527-3887 (CHEMTREC)

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
25068-38-6	Bisphenol A/Epichlorohydrin based epoxy resin	30 – 40	Not Available
015625-89-5	Trimethylolpropane triacrylate	20 – 30	Not available
7727-43-7	Barium sulfate	20 – 30	TWA: 10 mg/m ³ (ACGIH)
1317-65-3	Limestone	10 – 15	TWA: 15 mg/m ³ (OSHA) TWA: 10 ppm (ACGIH) TWA: 5 ppm (OSHA Respirable)
13463-67-7	Titanium dioxide	1 – 5	TWA: 10 mg/m ³ (OSHA) TWA: 10 CEIL: 20 mg/m ³
68909-20-6	Hydrophobic silica	1 – 5	TWA: 10 mg/m ³ (ACGIH)
14807-96-6	Magnesium silicate	1 – 5	TWA: 2 mg/m ³ (OSHA Respirable) TWA: 2 mg/m ³ (ACGIH Respirable)

SECTION 3 – HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of eye contact (irritant). Slightly dangerous to dangerous in case of skin contact (irritant, sensitizer), of inhalation, lungs irritant.

Potential Chronic Health Effects: Slightly dangerous to dangerous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of inhalation.

Carcinogenicity: NTP Carcinogen = No; IARC Monographs = No; OSHA Regulated = No

Medical Conditions Generally Aggravated by Exposure: Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4 – FIRST AID MEASURES

First Aid Procedures:

Ingestion: DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Eye Contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. DO NOT use an eye ointment. Seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 200°F (93.3°C)

Method Used: Setaflash

Flammable Limits in Air by Volume: Not available

Extinguishing Media: Foam, CO₂, dry chemical, water spray

Special Fire Fighting Procedures: No additional remark.

Unusual Fire and Explosion Hazards: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

HMIS Code: Health = 2 Flammability = 1 Reactivity = 1

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Absorb with an inert material and place in closed containers for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Keep away from heat, sparks and flame. Do not breathe gas, fumes, vapor or spray. Avoid contact with eyes. Wear suitable protective clothing. If you feel unwell, seek medical attention. See product label for additional information. **KEEP OUT OF THE REACH OF CHILDREN.**

Storage Procedures: Store and use in cool, dry, well-ventilated areas. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Dust respirator. When the concentration level is above TLV/PEL, be sure to use a MSHA/NIOSH approved respirator or equivalent.

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

Protective Gloves: Impervious gloves required for prolonged or repeated contact.

Eye Protection: Safety glasses with splash guards or full face shield is recommended.

Other Protective Equipment: Impervious apron or other clothing is recommended.

Work/Hygienic Practices: Eye washes and safety showers in the workplace are recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 201.7°F (93.3°C)

Specific Gravity (H₂O=1): 1.72

Vapor Pressure: Not available

Vapor Density: Not available

Solubility in Water: Very slightly soluble in cold water

pH: Not available

Percent Volatile By Volume (%): <0.1%

Evaporation Rate (Butyl Acetate = 1): Not available

Appearance and Odor: Grey liquid.

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Storage above 100°F (38°C), exposure to light, loss of dissolved air, loss of polymerization inhibitor, copper, copper alloys, carbon steel, iron and rust.

Incompatibility (materials to avoid): Slightly reactive to reactive with oxidizing agents, reducing agents, acids, alkalis.

Hazardous Decomposition or Byproducts: No additional remarks

Hazardous Polymerization: No additional remarks

SECTION 11 – TOXICOLOGICAL INFORMATION

Bisphenol A/Epichlorohydrin Based Epoxy Resin - ORAL (LD₅₀): Acute: 11000 mg/kg [Rat]. DERMAL (LD₅₀): Acute: 2000 mg/kg [Rabbit].

Hydrophobic Silica - ORAL: (LD₅₀): Acute: 5000 mg/kg [Rat]

Substance is toxic to skin and eyes. Hazardous in case of eye contact (irritant). Slightly dangerous to dangerous in case of skin contact (irritant, sensitizer), of inhalation. Non-corrosive for skin. Dust exposure (mg/m³) is only a concern when the applied coating is being removed.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic/Terrestrial Toxicity Environmental Fate: No data is available at this time.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

SECTION 14 – TRANSPORT INFORMATION

U.S. DOT

Shipping Description: Not regulated
ID Number: Not applicable
Hazard Class: Not applicable
Packing Group: Not applicable
Label: Not applicable
Placards: Not applicable

IMDG

Shipping Description: Non-hazardous
ID Number: Not required
Hazard Class: Not required
Packing Group: Not required
Label: Not required
Markings: Not required
Placards: Not required

SECTION 15 – REGULATORY INFORMATION

TSCA Inventory: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

SARA Extremely Hazardous Substances None

SARA Section 313 This product contains the following toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
None		

CERCLA/Superfund (RQ): This product is not subject to CERC LA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

Document Date: 5/20/03

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Revisions: Added Sections 12, 14 and 15

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