

**Safety Data Sheet**

**ABATRON**

**A Division of U.C Coatings, LLC**

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**24 Hour Emergency No: (800) 424-9300**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Product Name:** LiquidWood B Cold Weather **Product Class:** Modified aliphatic amine

**Product Code:** LWCBP **Product Type:** Epoxy Curing Agent

**Recommended Use:** Epoxy resin hardener used to repair and restore damaged or deteriorated wood.

**Uses advised against:**

**Manufacturer/Supplier:** Abatron,A Division of U.C Coatings, LLC

5501 95th Ave., Kenosha WI, 53144

Phone: 262-653-2000

Email: info@abatron.com

**Telephone:** For 24 Hour Emergency Assistance

Call CHEMTREC (800) 424-9300 (USA)

1-703-527-3887 (International)

**SECTION 2: Hazards Identification**

**Emergency Overview:** Danger. Irritant. Clear, amber colored liquid with a slightly irritating ammonia odor. Material is harmful if swallowed. Material causes skin irritation and prolonged contact may lead to sensitization and an allergic skin reaction. Material causes severe eye irritation. Material is harmful if inhaled and can cause severe respiratory tract irritation.

**Hazard Pictograms**



**Signal Word:** Danger

**Hazard Statements**

Causes severe skin burns and eye damage

Toxic in contact with skin

May cause an allergic skin reaction

Toxic if inhaled

Suspected of causing genetic defects

May cause damage to organs (kidney, liver)

May cause respiratory irritation

Toxic if swallowed

May damage fertility. May damage the unborn child

**Precautionary Statements**

Do not breathe dust/fumes/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF eye irritation persists: Get medical advice/attention.

IF ON SKIN: wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF SKIN irritation or rash occurs: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

Avoid release to the environment. Collect spillage.

Dispose of contents/container to be specified in accordance with regulations.

**SECTION 3: Composition/Information on Ingredients**

**Composition:** The exact composition is a trade secret. Proprietary liquid amidoamines.

Hazardous Ingredients

|  |  |  |  |
| --- | --- | --- | --- |
| **Substance Name** | **CAS Number** | **Concentration (%)** | **Hazard Classification** |
| m-phenylenebis(methylamine) | 1477-55-0 | 8 – 64% | Eye Dam. 1 H318  Skin Corr. 1B H314  Skin Sens. 1B H317  Acute Tox. 4 H302  Acute Tox. 4 H332  Aquatic Chronic 3 H412 |
| phenol | 108-95-2 | 1 – 16% | Acute Tox. 3 H301  Acute Tox. 3 H311  Acute Tox. 3 H331  Skin Corr. 1B H314  Muta.2 H341  STOT RE 2 H373 |
| 2-ethoxyethyl acetate | 111-15-9 | 10-30% | Flam. Liq. 3 H226  Acute Tox. 4 H302  Acute Tox. 4 H312  Acute Tox. 4 H332  Repro. Tox. 1B H360FD |

**SECTION 4: First Aid Measures**

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes and check for and remove contacts. Do not delay. Hold eyelids apart to rinse entire eye surface. Seek medical attention if irritation persists. Continue washing if medical attention is not immediately available.

**Skin Contact:** Wipe off excess immediately and wash affected area with soap and water for at least 15 minutes. Remove contaminated clothing or shoes and seek medical attention if irritation persists. Continue washing if irritation persists. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

**Inhalation:** If inhaled, remove victim to fresh air and consult medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained personnel only. If unconscious, place in recovery position and seek medical attention immediately.

**Ingestion:** Wash out mouth with small amounts of water and remove person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Prevent aspiration of vomit. Seek medical attention immediately. Turn victim’s head to one side. If unconscious, place in recovery position. Never give anything by mouth to an unconscious person.

**Primary Routes of Entry:** Eye and skin contact, breathing vapors.

**SECTION 5: Fire-Fighting Measures**

**Flash Point:** 163 ºF (73°C) **Flammable Limits (Stp In Air)**

**Method Used:** ASTM D3278 **Lfl/UFL:** Not Determined

**Suitable Extinguishing Media:** Water fog, alcohol-resistant foam, CO2, and dry chemicals such as sand and powdered limestone

**Unsuitable Extinguishing Media:** None known

**Specific Hazards and Procedures:** Heated containers may burst. Ammonia gas may be liberated at high temperatures. Incomplete combustion may result in the formation of toxic nitrogen oxide compounds (NOx) and carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated. The material is toxic to aquatic life. Fire residues and water contaminated with this material must be contained and prevented from entering waterways, sewers or drains.

**Hazardous Combustion Products:** Burning material may generate ammonia gas and noxious and toxic fumes. Combustion and/or decomposition products include carbon monoxide and nitrogen oxides (NOx).

**SECTION 6: Accidental Release Measures**

**Personal Protective Measures:** Provide adequate ventilation and keep all unnecessary and unprotected personnel from entering the area. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Wear an appropriate respirator when ventilation is inadequate. Use appropriate safety equipment before taking any action.

**Methods and Material for Containment and Cleaning Up:** Stop flow of material with sand or other inert material and move container from spill area. Absorb spill with an inert material, scrape up and place in appropriate waste disposal container. Remove residual resin with non-flammable solvent and flush contaminated area with hot water. Do not dump waste into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. All disposal methods must be compliant with all Federal, State, and local laws and regulations.

**SECTION 7: Handling and Storage**

**Precautions for Safe Handling:** Wear safety glasses. Do not combine this product with sodium nitrite or other nitrosating agents. Suspected cancer-causing nitrosamines could be formed. Avoid contact with acids, oxidizers, acrylates, alcohols, aldehydes, ketones and halogenated hydrocarbons. Avoid contact with metal such as copper, copper alloys, brass and bronze. Wear personal protection equipment including safety glasses. Do not get in eyes, on skin or on clothing. Avoid any forms of ingestion. Do not breathe vapor, mist or spray. Use only with good ventilation or use suitable respiratory protection. Persons with a history of skin sensitization problems should avoid contact with any process in which this product is used. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in tightly sealed, original container in a cool, dry and well-ventilated place protected from direct sunlight. Keep container sealed until use. Keep containers tightly closed when not in use. Store away from incompatible materials such as acids and food and drink. Use appropriate containment to avoid environmental contamination. Product may freeze with extended exposure to low temperatures. If this occurs, warm the product to 100 – 140°F (38 – 60°C) for one hour and stir until clear.

**SECTION 8: Exposure Controls/Personal Protection**

**Occupational Exposure Limits for formulated product:**

None available

**Occupational Exposure Limits for individual components:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Chemical | CAS # | OSHA PEL  8-hr TWA | NIOSH REL 15 min. ceiling | NIOSH REL TWA | NIOSH IDLH | ACGIH TLV 8-hr TWA |
| phenol | 108-95-2 | 5 ppm | 15.6 ppm | 5 ppm | 250 ppm | 5 ppm |
| m-phenylenebis(methylamine) | 1477-55-0 |  | 0.1 mg/m3 |  |  | 0.1 mg/m3 (ceiling) |
| 2-ethoxyethyl acetate | 111-15-9 | 100 ppm |  | 0.5 ppm | 500 ppm | 5 ppm |

**Engineering Controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate vapor, process enclosures or local exhaust may be necessary.

**Individual Protection Measures**

**Eye/Face Protection:** Use properly fitted safety glasses. If vapor exposure causes eye discomfort, a full-face respirator may be necessary.

**Skin Protection:** Wear protective clothing suitable to the conditions of use. Clean, body-covering clothing and protective gloves should be worn at all times when handling the product.

**Respiratory Protection:** If local exhaust ventilation is inadequate, use a properly fitted, air-purifying mask suitable to the level of anticipated exposure.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

**SECTION 9: Physical and Chemical Properties**

**Physical State:** Clear amber liquid **Odor:** Irritating, amine

**Odor Threshold:** Not determined **pH:** 9.5 – 10.5 (1% solution)

**Melting Point/Freezing Point:** Not Determined **Boiling Point:** Not Determined

**Flash Point:** 73 °C **(**163°F)  **Evaporation Rate:** Not determined

**Flammability:** Combustible **Explosive Limits:** Not applicable

**Vapor Pressure:** Not determined  **Relative Vapor Density:** Not applicable

**Relative Density (water = 1):** 1.11-1.15@ 22°C  **Solubility:** Slightly soluble in water

**Partition Coefficient:** Not determined **Auto-Ignition Temp.:** Not determined

**Decomposition Temperature:** Not determined **Viscosity:** 300-900 cps

**Explosive Properties:** None **Oxidizing Properties:** Slight

### SECTION 10: Stability and Reactivity

**Reactivity:** Product reacts exothermically with epoxide resins. Product by itself is stable and relatively non-reactive under normal conditions of use, storage and shipping.

**Chemical Stability:** Product is stable under normal use and temperature conditions. Prolonged excessive heat may cause partial degradation.

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Avoid contact with incompatible materials. Avoid excessive heat. Store between 40-90°F.

**Incompatible Materials:** Avoid contact with acids, oxidizers, acrylates, alcohols, aldehydes, ketones and halogenated hydrocarbons. Avoid contact with metal such as copper, copper alloys, brass and bronze. Avoid bulk contact with epoxides. Material reacts with considerable heat release with some epoxide resins.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, acrid smoke and fumes

**Hazardous Polymerization:** Will not occur by itself, but hazardous polymerizations may occur with aliphatic amines combined with epoxides in masses greater than one pound with considerable heat buildup.

### SECTION 11: Toxicological Information

**Acute Toxicity:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Oral LD 50** | **Dermal LD 50** | **Inhalation LC 50** |
| Finished product (major component) | >2,200 mg/kg (rat) | >1,000 mg/kg (rabbit) | >20mg/L (rat) |
| m-phenylenebis(methylamine) | 980 mg/kg (rat) | 2000 mg/kg (rabbit) | 1.34 mg/L (rat, 4 hr) |
| phenol | 317 mg/kg (rat) | 630 mg/kg (rabbit) | 900 mg/m3 (rat, 8 hr) |
| 2-ethoxyethyl acetate | 2,700 mg/kg (rat) | 10,000 mg/kg (rabbit) | 12,100 mg/m3 (rat, 8 hr) |

**Skin Corrosion/Irritation:** The formulated product is considered a severe skin irritant. Brief contact may cause skin burns.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Species** | **Skin Exposure** | **Observation** |
| m-phenylenebis(methylamine) (OECD Test Guideline 404) | Rabbit | >3 min - <1 hr | Corrosive |
| Phenol |  | >3 min - <1 hr | Corrosive |

**Serious Eye Damage/Irritation:** The formulated product is considered a severe eye irritant. Exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Species** | **Eye Exposure** | **Observation** |
| Finished product (major component) |  |  | Severe Irritant |
| Phenol | Rabbit | 100 mg, 24 hours | Severe Irritant |

**Respiratory or Skin Sensitization:** Sensitization is possible through skin contact. Sensitization has occurred in lab animals after repeated exposures.

**Germ Cell Mutagenicity:** No data for the product itself.

|  |  |  |  |
| --- | --- | --- | --- |
| **Component** | **Test** | **Species** | **Result** |
| m-phenylenebis(methylamine) | Ames | S. typhimurium | Negative |
| m-phenylenebis(methylamine) | Micronuclear | mouse | Negative |

**Carcinogenicity:** No components of this product are listed or classified as carcinogens by IARC, NTP, OSHA or ACGIH.

**Reproductive Toxicity:** Not available

**STOT-Single Exposure:** Not Available

**STOT-Repeat Exposure:** Not Available

**Routes of Exposure:** Skin contact, eye contact, vapor inhalation.

**Primary Symptoms:** Material is a severe eye and skin irritant and moderate skin sensitizer. Prolonged exposure can cause dryness and cracking of the skin. Material vapor can be irritating to the respiratory and digestive tracts, and may be harmful if swallowed or inhaled in large amounts.

**Effects of Overexposure:** Overexposure to vapors can cause dizziness, headaches and other central nervous system effects.

### SECTION 12: Ecological Information

**Acute (short-term) toxicity:** The formulated product is toxic to aquatic organisms on an acute basis.

Component: m-phenylenebis(methylamine) (following OECD Test Guidelines 203, 202 and 201 as appropriate)

|  |  |  |
| --- | --- | --- |
| **Species** | **Result** | **Exposure** |
| Oryzias latipes | LC50: 97.6 mg/L | 96 hour; semi-static |
| Daphnia magna (water flea) | EC50: 15.2 mg/L | 48 hour; static |
| Pseudokirchneriella subcapitata (green algae) | EC50: 32.1 mg/L | 72 hour; growth rate inhibition |
| Bacteria (aerobic sludge treatment) | EC50: >1000 mg/L | Respiration inhibition |

**Chronic (long-term) toxicity:** The formulated product may cause long-term effects in the aquatic environment.

**Persistence and Degradability:** No information for the product itself.

The major component, m-phenylenebis(methylamine), is not readily biodegradable, 49% in 28 days. (OECD Test Guideline 301B)

**Bioaccumulative potential:** Partition coefficient n-octanol /water (log Pow): Not Available

**Mobility in soil:** Not Available

**SECTION 13: Disposal Considerations**

Disposal considerations apply only to the product as shipped in its original container.

**Waste Disposal:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer. The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### SECTION 14: Transportation Information

**US DOT:**

**UN Number:** 2735

**UN Proper Shipping Name** Amines, liquid, corrosive, n.o.s. (Benzene-1,3 dimethaneamine)

**Hazard Class:** 8

**Packing Group:** II

**Marine Pollutant:** Not Applicable

In quantities not over 1 L or 1 Kg this product can be shipped as a limited quantity.

**SECTION 15: Regulatory Information**

**HCS Classification:** Irritating material, Sensitizing material

**TSCA Status:** All materials are either included on or exempt from the TSCA Inventory of Chemical Substances. This product does not contain any components subject to TSCA 12(b) export notification.

**Global Chemical Inventory Status:** All materials are either listed, compliant with or exempt from listing on the following global inventories:

|  |  |  |
| --- | --- | --- |
| **Country/Region** | **Inventory Name** | **Listed?** |
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| EU | European List of Existing Commercial Chemical Substances (EINECS) | Yes |
| EU | European List on Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory of Chemicals (NZIoC) | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| USA | Toxic Substances Control Act Inventory (TSCA) | Yes |

**SARA 313 Components**

This material contains 2-ethoxyethyl acetate (listed as glycol ethers) (CAS# 111-15-9) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Other Regulations:** This product contains no Extremely Hazardous Substances, EPCRA Sec.311, Appendix A and B.

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive or developmental effects.

**SECTION 16: Other Information**

**HMIS Rating:** The Hazardous Materials Identification System (HMIS) is a rating system with 0 representing a minimal risk or hazard and 4 representing a significant risk or hazard.

Health 3

Flammability 1

Physical Hazard 0

**SDS History:**

Version: 1

Revision Date: October 25, 2021

Previous Update: N/A

Creation Date:October 28, 2020

Revision Notes: N/A

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