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Safety Data Sheet

SECTION 1: Product Identification

Product Name: LiquidWood A Cold Weather **Product Class:** Epoxide
Product Code: LWCAP **Product Type:** Liquid Epoxy Resin
Recommended Use: Epoxy resin used to repair and restore damaged or deteriorated wood.

Manufacturer/Supplier: Abatron Incorporated
5501 95th Ave., Kenosha WI, 53144
Phone: 262-653-2000
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Telephone: For 24 Hour Emergency Assistance
Call CHEMTREC (800) 424-9300 (USA)
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SECTION 2: Hazards Identification

Emergency Overview: Warning! Irritant. Clear colorless liquid with a mild aromatic odor. Material is harmful in contact with skin and contact may cause skin sensitization and an allergic skin reaction. Material causes eye irritation. Material may be harmful if inhaled in large amounts and vapor can cause upper respiratory tract irritation.

Hazard Pictograms



Signal Word

Danger

Hazard Statements

Combustible liquid
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Harmful if swallowed
Harmful if inhaled
Harmful in contact with skin
May cause respiratory irritation
Toxic to aquatic life with long lasting effects
May damage fertility. May damage the unborn child

Precautionary Statements

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

Avoid breathing dust/fume/gas/mist/vapors/spray.

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

Wash contaminated clothing before reuse.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Use only outdoors or in a well-ventilated area.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

SECTION 3: Composition/Information on Ingredients

Composition: The exact composition is a trade secret. Proprietary epoxy prepolymer.

Hazardous Ingredients

Substance Name	CAS Number	Concentration (%)	Hazard Classification
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	25068-38-6	60-100%	Skin Sens. 1 H317 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Chronic 2 H411
2,3-epoxypropyl o-tolyl ether	2210-79-9	1 – 10%	Skin Sens. 1 H317 Skin Irrit. 2 H315 Muta. 2 H341 Aquatic Chronic 2 H411
butyl glycidyl ether	2426-08-6	1 – 10%	Skin Sens. 1 H317 Muta. 2 H341 Acute Tox. 4 H302 Acute Tox. 4 H332 STOT SE 3 H335 Aquatic Chronic 3 H412
2-ethoxyethyl acetate	111-15-9	1 – 10%	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. 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.

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. Seek medical attention immediately. 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: 178 °F (81 °C)

Method Used: ASTM D3278

Flammable Limits (STP in Air)

LFL/UFL: Not Determined

Suitable Extinguishing Media: Water fog, alcohol-resistant foam, CO₂ and dry chemicals

Unsuitable Extinguishing Media: None known

Specific Hazards and Procedures: Remove all persons from the vicinity. Burning material may generate large amounts of vapor and produce noxious and toxic fumes. Combustion and/or decomposition products include carbon oxides.

Specific Fire Fighting Equipment: Firefighters should wear a self-contained breathing apparatus and personal protective clothing.

Hazardous Combustion Products: Burning material may generate large amounts of vapor and produce noxious and toxic fumes. Combustion and/or decomposition products include carbon monoxide, carbon dioxide and halogenated compounds.

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 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 get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 place protected from direct sunlight. Keep container sealed until use. Keep containers tightly closed when not in use. Store away from incompatible materials and food and drink. Use appropriate containment to avoid environmental contamination. Avoid strong acids or bases in bulk, and strong oxidizing materials. Material reacts with considerable heat release with some curing agents.

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 (ppm)	NIOSH REL 15 min. ceiling (ppm)	NIOSH REL TWA (ppm)	NIOSH IDLH (ppm)	ACGIH TLV 8-hr TWA (ppm)
n-butyl glycidyl ether	2426-08-6	50	5.6		250	3
2-ethoxyethyl acetate	111-15-9	100		0.5	500	5

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, colorless liquid
Odor Threshold: Not Determined
Melting Point/Freezing Point: Not Determined
Flash Point: 178 °F (81 °C)
Flammability: Combustible
Vapor Pressure: Not Determined
Relative Density (water = 1): 1.12-1.16@ 22°C
Partition Coefficient: Not Determined
Decomposition Temperature: Not Determined
Explosive Properties: None

Odor: Mild aromatic odor
pH: 4.5 – 5.5 (1% solution)
Boiling Point: Not Determined
Evaporation Rate: Not Determined
Explosive Limits: Not Determined
Vapor Density (air = 1): >1
Water Solubility: Negligible
Auto-Ignition Temp.: Not Determined
Viscosity: 400-1000 cps
Oxidizing Properties: None

SECTION 10: Stability and Reactivity

Reactivity: Product reacts exothermically with amine and amide-based curing agents. Product by itself is stable and relatively non-reactive under normal conditions of use, storage and shipping.

Chemical Stability: Product is stable under normal 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 Material: Avoid contact with strong acids or bases in bulk, and strong oxidizing materials. Avoid bulk contact with amines, amides and other curing agents. Material reacts with considerable heat release with some curing agents.

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 in masses greater than one pound with considerable heat buildup.

SECTION 11: Toxicological Information

Acute Toxicity: The formulated product is considered mildly toxic.

Component	Oral LD50	Dermal LD 50	Inhalation LC 50
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	11.4 g/kg (rat)	>20g/kg (rabbit)	-
Butyl glycidyl ether	2.05 g/kg (rat)	788 mg/kg (rabbit)	>670 ppm (rat, 8 hr)
O-Cresyl Glycidyl Ether	5.8 g/kg (rat)	>2000 mg/kg (rabbit)	1220 ppm (rat, 4 hr)
2-ethoxyethyl acetate	2.7 g/kg (rat)	5,303 mg/kg (rabbit)	12,100 mg/m ³ (rat, 8 hr)

Skin Corrosion/Irritation: The formulated product is considered a moderate skin irritant.

Component	Species	Skin Exposure	Observation
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	Rabbit	100 mg	Mild Irritant
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	Rabbit	20 mg, 24 hours	Moderate Irritant

Serious Eye Damage/Irritation: The formulated product is considered a severe eye irritant.

Component	Species	Eye Exposure	Observation
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	Rabbit	500 µl, 24 hours	Moderate Irritant
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	Rabbit	2 mg, 24 hours	Severe Irritant

Respiratory or Skin Sensitization: Sensitization is possible through skin contact.

Germ Cell Mutagenicity: Components n-butyl glycidyl ether, CAS # 2426-08-6, and 2,3-epoxypropyl o-tolyl ether, CAS # 2210-79-9 are suspect mutagens.

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

Reproductive Toxicity: No data for the formulated product

Component	Category	Effect
2-ethoxyethyl acetate	1B	May harm the unborn child May impair fertility

STOT-Single Exposure

Component	Category	Target Organ
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	3	Respiratory tract irritation
O-Cresyl Glycidyl Ether	3	Respiratory tract irritation
O-Cresyl Glycidyl Ether	2	Eyes

STOT-Repeat Exposure

Component	Category	Target Organ
Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	3	Respiratory tract irritation
O-Cresyl Glycidyl Ether	1	Skin, Respiratory tract
O-Cresyl Glycidyl Ether	2	blood stream, CNS

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 moderately toxic to aquatic organisms on an acute basis.

Component: Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin

Species	Result	Exposure
Oncorhynchus mykiss (rainbow trout)	LC50: 2 mg/L	96 hour; semi-static
Daphnia magna (water flea)	EC50: 1.8 mg/L	72 hour; static
Scenedesmus capricornutum (fresh water algae)	ErC50: 11 mg/L	72 hour; growth rate inhibition
Bacteria	IC50: >42.6 mg/L	18 hour; respiration rates

Chronic (long-term) toxicity: The formulated product is moderately toxic to aquatic organisms on a chronic basis.

MATC (Maximum Acceptable Toxicant Level)

Component: Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin

Species	Result	Exposure
Daphnia magna (water flea)	0.55 mg/L	21 day; semi-static; number of offspring

Persistence and Degradability: The major component is not readily biodegradable.

Bioaccumulative potential: Partition coefficient n-octanol /water (log Pow): Between 3-5 at 25°C (estimated, for the major component)

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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of material and runoff, and contact with soil, waterways, drains and sewers.

SECTION 14: Transportation Information

US DOT: Not regulated for transport

UN Number: Not Applicable
UN Proper Shipping Name: Not Applicable
Hazard Class: Not Applicable
Packing Group: Not Applicable
Marine Pollutant: Not Applicable

In quantities not to exceed 5kg/5L per single or inner packaging, marine pollutants are not subject to regulation by ground, air, or vessel. See 49 CFR 171.4(c)(2).

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)	Yes
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.

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Name	CAS #	Concentration	Hazard
2-ethoxyethyl acetate	111-15-9	5%	developmental & reproductive effects

Substances of Very High Concern (SVHC) Candidate List:

Chemical Name	CAS #	Concentration	Hazard
2-ethoxyethyl acetate	111-15-9	5%	developmental & reproductive 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	2*
Flammability	1
Physical Hazard	0

SDS History

Version:	1.0
Revision Date:	New
Previous Update:	N/A
Creation Date:	October 27, 2020
Revision Notes:	N/A

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