

Material Safety Data Sheet

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by LA-CO Industries, Inc. (LA-CO) in accordance with the U.S. OSHA Hazard Communication Standard, Canadian WHMIS Controlled Products Regulations, British CHIP regulation 6, Australian NMRCWHS and ANSI Z400.1-1993 guidelines. The information contained herein must not be altered, deleted or added to, with the exception of adding supplier/importer information in the space provided. LA-CO has no objection to its MSDS being copied if: a) the copy is made for safety-related purposes; and b) no alterations or amendments are made to the text or format of the MSDS, with the exception of adding supplier/importer information in the space provided. LA-CO does not guaranty the accuracy of any MSDS for our products which: a) is not prepared by LA-CO; b) is not authorized by LA-CO; c) is not in the format originally supplied by LA-CO; or d) has otherwise been amended or altered by a third party, with the exception of adding supplier/importer information in the space provided. Official LA-CO MSDS's reside on its web site at www.laco.com.

Section 1 Product and Company Identification

Product Name:

EPOXY STIK

Revision #: 2.0

Date Prepared: April 3, 1997

Date Revised: May 24, 2002

Manufacturer:

LA-CO INDUSTRIES, Inc. *Markal Co.*

1201 Pratt Blvd.

Elk Grove Village, IL, USA 60007-5746

Information Telephone: 847-956-7600

Emergency Telephone: Call CHEMTREC

USA 800-424-9300

International (Call Collect) 1-703-527-3887

Chemical Formula: Mixture

CAS No.: Not Applicable. Derivation: Not Applicable.

Synonyms: Not Applicable.

General Use: Multi-purpose epoxy putty.

Supplier/Importer:

Section 2 Composition/Information on Ingredients

Ingredient	CAS No.	%
Glycidyl ethers of bisphenol A resins	25068-38-6	10 - 13
Tri(dimethylaminomethyl)phenol	90-72-2	0.5 - 1.5
Zinc sulfide ¹	1314-98-3	0.5 - 1.5

(For Section 2 footnotes: See Section 15)

Section 3 Hazards Identification

EMERGENCY OVERVIEW: WARNING: May cause irritation to sensitive skin. Wash hands with soap and water after use. Eye irritant. In case of eye contact, flush with water. Contact physician. May be harmful if swallowed. When sanding cured putty or substrate, use protective eye wear and dust mask. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

ADVERTENCIA: Puede provocar irritación en piel sensible. Lave sus manos con agua y jabón después de usar el producto. Irritación de los ojos. En caso de que exista contacto con los ojos, lave los ojos con abundante agua. Comuníquese con su médico. Puede ser perjudicial si es tragado. Manténgase fuera del alcance de los niños. Cuando pule la

masilla ya seca o el substrato, utilice lentes de seguridad y una mascara para el polvo.

ADVERTISSEMENT: Peut irriter une peau sensible. Lavez-vous les mains avec une eau savonneuse après usage. Irritant por les l'oeil, rincez avec de l'eau et communiquez avec votre médecin. Peut être dommageable si avalé. Tenir hors de la portée des enfants. Lorsque vous poncez le produit fini, utilisez des lunettes de sécurité et masque filtrant.

POTENTIAL HEALTH EFFECTS

Primary Exposure Routes: Eyes, Skin, Ingestion

Acute Effects

Eyes: Possible irritant.

Skin: Possible irritant.

Ingestion: Irritation of intestinal tract.

Inhalation: None.

Chronic Effects

Eyes: Possible sensitizer.

Skin: Possible sensitizer.

Ingestion: None Known.

Inhalation: None Known.

Carcinogenicity: Not Applicable.

Target Organ Effects: Not Applicable.

Medical Conditions Aggravated by Long-Term Exposure: Not Determined.

Other Information: Not Applicable.

Section 4**First Aid**

Eye Contact: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Have victim roll eyes for more thorough flushing.

Skin Contact: Flush skin with water or wash with soap and water. Consult physician if irritation develops.

Ingestion: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
Give victim water to dilute.

Inhalation: Not applicable

Other Information: None known

Section 5**Fire Fighting Measures**

Flash Point (method): Non-liquid product. Not applicable per OSHA Regulations, Standards - 29 CFR 1910.106 (a) (14)

Autoignition Temperature: Not determined

LEL: Not Determined. **UEL:** Not Determined.

Flammability Classification: Not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Hazardous Combustion Products: Aldehydes, acids; oxides of carbon, nitrogen, and sulfur.

Unusual Fire or Explosion Hazards: None known

Fire-Fighting Instructions/Equipment: Keep personnel removed and upwind of any fire. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Section 6**Accidental Release Measures**

Use recommended personal protective equipment (see Section 8).

Small Spill: Sweep or scrape up.

Large Spill: Sweep or scrape up.

Section 7 Handling and Storage

Handling Precautions: Use recommended personal protective equipment (see Section 8). Wash thoroughly after handling.

Storage Requirements: Store away from incompatible chemicals (see Sec. 10). Store in a cool, dry area below 90°F (32°C).

Section 8 Exposure Controls/Personal Protection

Eye/Face Protection: Safety glasses. Where contact with the eyes is likely, use chemical goggles. Use a face shield as needed.

Skin/Hand Protection: Use impervious gloves.

Respiratory Protection: Suitable for related activities where this product is used.

Other Equipment: Eyewash and safety shower.

Engineering Controls: Suitable for related activities where this product is used.

Administrative Controls: Users of this product must be properly trained and qualified in its use.

Other Information: No food or beverage should be consumed in the work area. Wash thoroughly before eating, drinking, or smoking.

Section 9 Physical and Chemical Properties

Appearance/Physical State: White and black co-extruded putty.

Odor: Sulfur, mercaptan.

Odor Threshold (ppm): Not Determined.

Specific Gravity (H₂O = 1): 1.95

Solubility - Water: Insoluble

- Fat: Soluble

Coefficient of Water/Oil Solubility: <1

Partition Coefficient (n-octanol/water): >1

pH: Not applicable

Melting Point: Not applicable

Boiling Point: Not applicable

Vapor Pressure (mm Hg at 20°C): Not applicable

Vapor Density (Air = 1): Not applicable

Evaporation Rate (n-BuAc=1): Not applicable

V.O.C. (U.S. Clean Air Act Section 111): 0%(w/w)

Flash Point (method): (see Section 5)

Autoignition Temperature: (see Section 5)

Flammability Classification: (see Section 5)

Unusual Fire or Explosion Hazards: (see Section 5)

Oxidizing Properties: Not Applicable.

Other Information: None.

Note: The physical data represented above are typical values and should not be construed as a specification.

Section 10 Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None known

Chemicals to Avoid: Strong oxidizers.

Hazardous Decomposition Products (non-thermal): Not determined

Section 11 Toxicological Information

Sensitization to Product: May cause allergic skin reaction.

Reproductive Toxicity: Not Applicable.

Teratogenicity: Not Applicable.

Mutagenicity: Not Applicable.

Glycidyl ethers of bisphenol A resins

IRRITATION DATA

EYE-RBT 100 MG MLD

AMIHAB 17,129,1958

SKN-GPG 2750 MG/55D-I

AITEAT 23,155,1975

TOXICITY DATA

ORL-RAT LD50:11400 MG/KG

AMIHAB 17,129,1958

IPR-RAT LD50:2400 MG/KG

AMIHAB 17,129,1958

ORL-MUS LD50:15600 MG/KG

AMIHAB 17,129,1958

IPR-MUS LD50:4 GM/KG

AMIHAB 17,129,1958

Tri(dimethylaminomethyl)phenol

IRRITATION DATA

SKN-RBT 2 MG/24H SEV

85JCAE -,699,1986

SKN-RBT 500 UL/24H SEV

NTIS** OTS0544742

EYE-RBT 50 UG/24H SEV

85JCAE -,699,1986

TOXICITY DATA

ORL-RAT LD50:1200 MG/KG

RPTOAN 37,130,1974

SKN-RAT LD50:1280 MG/KG

ROHM**

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (FLACCID PARALYSIS WITHOUT ANESTHESIA)

LUNGS, THORAX OR RESPIRATION (DYSPPNAE)

Zinc sulfide

TOXICITY DATA

ORL-RAT LD50:>2 GM/KG

RCCRC* NOTOX1072/1332,1989

IHL-RAT LC50:>5040 MG/M3/4H

RCCRC* NOTOX1072,1989

SKN-RAT LD50:>2 GM/KG

RCCRC* NOTOX1072/1333,1989

Further hazard information, if applicable, may be found in Section 3.

Section 12 Ecological Information

Mobility: Not Determined.

Ecotoxicity: Not Determined.

Degradability: Not Determined.

Other Adverse Effects: Not Determined.

Accumulation: Not Determined.

Section 13 Disposal Considerations

Dispose of in accordance with all applicable regulations.

The conditions of handling, storage, and use of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

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Section 14

Transport Information

D.O.T. (U.S.)

Proper Shipping Name: Not Regulated.

Hazard Class or Division: Not Regulated.

Hazard Label: Not Regulated.

I.D. Number: Not Regulated.

TDG (Canada): Not Regulated.

IATA: Not Regulated.

ICAO: Not Regulated.

IMO: Not Regulated.

Australian Code for the Transport of Dangerous Goods

Dangerous Goods Class and Subsidiary Risk: Not Determined.

Section 15

Regulatory Information

Footnotes for Section 2:

- 1 Subject to the reporting requirements of SARA Title III, Section 313.
- 2 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.
- 3 Appears on the Massachusetts Substances List.
- 4 Appears on the New Jersey Right-To-Know Hazardous Substances List.
- 5 Appears on the Pennsylvania Hazardous Substances List.
- 6 Appears on the Canadian WHMIS Ingredient Disclosure List.

U.S.A.

OSHA Hazard Status: This product is considered to be hazardous as defined by the U.S. OSHA HCS (29 CFR 1910.1200).

EPA SARA sec. 311/312 Hazard Categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

Toxic Substances Control Act (TSCA): All ingredients contained in this product are listed on the U.S. EPA TSCA Chemical Substance Inventory.

HMIS® Rating: Health 1, Flammability 1, Reactivity 0

NFPA® (704) Rating: Health 2, Flammability 1, Reactivity 0

CANADA

WHMIS Status: This product is considered to be hazardous as defined by Canadian WHMIS Controlled Products Regulations.

WHMIS Rating: D1-B, D2-B

WHMIS Risk Phrases: None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

WHMIS Precautionary Statements: None required on containers of 100 ml or less per CPR, Section 19[1][a]-[d].

Domestic Substances List (DSL): All ingredients contained in this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

E.U.

European Inventory of Existing Chemical Substances (EINECS): All ingredients contained in this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

Categories of Danger (Labeling Information): Harmful (Xn)

Risk (R) Phrases: Not required per regulation 9 (8) of CHIP.

Safety (S) Phrases: Not required per regulation 9 (8) of CHIP.

AUSTRALIA

Worksafe Australia Status: Not determined

HAZCHEM Code: Not determined

Poisons Schedule Number: Not determined

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EPOXY STIK

Revision #: 2.0

Date Prepared: April 3, 1997

Date Revised: May 24, 2002

Further regulatory information regarding individual ingredients, if applicable, may be found in Section 2.

This product has been classified in accordance with the hazard criteria of the U.S. OSHA Hazard Communication Standard, the Canadian WHMIS Controlled Products Regulations, the British CHIP2 regulation 6, and the Australian NMRCWHS. This MSDS contains the information required by the above regulations and conforms to ANSI Z400.1-1993.

Section 16

Other Information

HMIS is a registered trademark of the National Paint and Coatings Association.

NFPA is a registered trademark of the National Fire Protection Association.

MSDS Prepared By: Director of Chemical Safety

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, LA-CO Industries, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use. In no event will LA-CO Industries, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.