

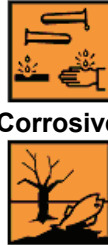



SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Epoxy Tabs™ – Type “O”
Product Code: 19570
Product Use: For oil and gasoline leak repair
Manufacturer: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
 E-mail Contact: customer_service@laco.com
Phone Number: (847) 956-7600
Fax: (847) 956-9885
24-hour Emergency: CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transport
		 Corrosive Dangerous for the Environment	 Corrosive	May be shipped as Dangerous Goods in Limited Quantities (See Section 14)

Emergency Overview: Danger! Corrosive. Causes burns. May cause an allergic skin reaction. Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Appearance, Color and Odor: Individually wrapped black tabs and white tabs, ammonia-like odor.

USA: This product is a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Evaluation.

Canada: This is a controlled product under WHMIS.

European Communities (EC): This product is classified as dangerous according to Directive 1999/45/EC and its amendments. Classifications: Corrosive; Dangerous for the environment.

Potential Health Effects:

Relevant Route(s) of Exposure: Eye contact, Skin contact, Ingestion.

Inhalation: Inhalation of dusts can be severely irritating to the nose, throat and respiratory system and can cause damage to the respiratory system. Symptoms of over-exposure include weakness, dry cough, chest pain, shortness of breath and difficulty breathing.

Ingestion: Corrosive. Causes burns to the mouth, throat and gastro-intestinal system if swallowed. Symptoms are expected to include severe pain, vomiting and bleeding.

Skin: Corrosive. Causes burns with direct contact.

Eye: Severely irritating to the eyes. Causes eye burns. Can cause permanent eye damage.

CHRONIC (long term):
 Prolonged or repeated over-exposure by skin contact may cause skin burns or dermatitis.

Medical Conditions Aggravated by Exposure: Preexisting skin disorders may be aggravated by exposure.

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Section 2: Hazards Identification, continued

- Interactions With Other Chemicals:** May react vigorously with strong acids and strong oxidizing agents generating heat and hazardous fumes. See Section 10.
- Potential Environmental Effects:** Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Section 3: Composition / Information on Ingredients

Hazardous/Dangerous Ingredients:

Black Tabs:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
2-piperazin-1-ylethylamine	140-31-8	7 - 12	205-411-0	Xn; C	R21/22 - R34 - R43 - R52-53
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	10 - 12	273-201-6	None	None
Nonylphenol	25154-52-3	1 - 4	246-672-0	Repr. Cat. 3; Xn; C; N	R62 - R63 - R22 - R34 - R50-53
3,6,9-triazaundecamethylenediamine	112-57-2	1 - 2	203-986-2	Xn; C; - N	R21/22 - R34 - R43 - R51-53

White Tabs:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>NLP List</u>	<u>Symbol</u>	<u>Risk Phrases</u>
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25068-38-6	15 - 40	500-033-5	Xi; N	R36/38 - R43 - R51-53

See Section 16 for the full text of the R-phrases above.

Section 4: First Aid Measures

- Inhalation:** Remove source of contamination or move victim to fresh air. Obtain medical attention immediately.
- Eye Contact:** Avoid direct contact with this chemical. Wear chemical protective gloves, if necessary. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting. Take care not to rinse contaminated water into the non-affected eye or onto the face. If irritation persists repeat flushing. Quickly transport victim to an emergency care facility.
- Skin Contact:** Avoid direct contact with this chemical. Wear chemical protective gloves, if necessary. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 20-30 minutes, by the clock. If irritation persists, repeat flushing. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting. Under running water, remove contaminated clothing, shoes, and leather goods (e.g., watchbands, belts). Transport victim to an emergency care facility immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.
- Ingestion:** Get immediate medical attention. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Quickly transport victim to an emergency care facility.

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Section 5: Fire Fighting Measures

Flammable Properties:	This material will burn when strongly heated and when involved in fire.						
Suitable extinguishing Media:	Extinguish fire using appropriate extinguishing media for the surrounding fire. Use water spray to cool fire-exposed containers.						
Unsuitable extinguishing Media:	Not available						
Explosion Data:							
Sensitivity to Mechanical Impact:	Not applicable						
Sensitivity to Static Discharge:	Not applicable						
Specific Hazards arising from the Chemical:	If involved in a fire, thermal decomposition may produce toxic and irritating fumes and gases which may include nitrogen oxides, ammonia, hydrogen cyanide, nitriles, isocyanates, nitrosamines, carbon monoxide, carbon dioxide, and other irritating and toxic fumes.						
Protective Equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing should be worn. Remove all unprotected personnel.						
NFPA	<table border="0"> <tr> <td style="padding-right: 10px;">Health:</td> <td>2</td> </tr> <tr> <td style="padding-right: 10px;">Flammability:</td> <td>2</td> </tr> <tr> <td style="padding-right: 10px;">Instability:</td> <td>0</td> </tr> </table>	Health:	2	Flammability:	2	Instability:	0
Health:	2						
Flammability:	2						
Instability:	0						

Section 6: Accidental Release Measures

Personal Precautions:	Wear protective gloves and goggles. Monitor the workplace air for harmful concentrations of vapors and take appropriate precautions if concentrations in air exceed workplace exposure limits.
Environmental Precautions:	Prevent the product from entering sewers or waterways.
Methods for Containment:	Stop the leak if it is safe to do so. Do not flush the spill to sewers.
Methods for Clean-up:	Clean up spills immediately. Scoop up material and place in suitable, covered containers for re-use or disposal. Dispose of any contaminated, unusable product as described in Section 13 of this SDS.

Section 7: Handling and Storage

Handling:	This material is corrosive. Keep out of reach of children.
Storage:	Store in the tightly closed container in a cool, dry area, out of direct sunlight and away from sources of heat. Product is corrosive. Store product in its original container. Empty containers may retain product residue, do not re-use containers for other purposes.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Consult local authorities for acceptable exposure limits.

Ingredient	ACGIH TLV (8-hr. TWA) (mg/m ³)	U.S. OSHA PEL (8-hr. TWA) (mg/m ³)	Ontario (Canada) TWAEV (mg/m ³)	UK OEL (8-hr. TWA) (mg/m ³)
2-piperazin-1-ylethylamine	Not established	Not established	Not established	Not established
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	Not established	Not established	Not established	Not established
Nonylphenol	Not established	Not established	Not established	Not established
3,6,9-triazaundecamethylenediamine	Not established	Not established	Not established	Not established
Other Occupational Exposure Limits: 3,6,9-triazaundecamethylenediamine, AIHA WEEL = 5 mg/m ³ , Skin.				

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Section 8: Exposure Controls/Personal Protection, continued

Exposure Controls

Engineering Controls: Provide adequate ventilation/local exhaust to keep exposure levels below any applicable exposure limits.

Personal Protection:

Eye/Face Protection: Wear chemical splash goggles.

Skin Protection: Wear impervious protective gloves made of neoprene, butyl or nitrile rubber. Wear clean body-covering clothing to prevent skin contact.

Respiratory Protection: When concentrations in air exceed the occupational exposure guidelines, wear an appropriate respirator. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

A respiratory protection program that meets OSHA’s 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 or Canadian Standards Association (CSA) Standard Z94.4-02 must be followed whenever workplace conditions warrant a respirator’s use.

General Hygiene Measures: Prevent all skin and eye contact. Do not ingest. Keep container closed when not in use. Wash thoroughly after handling this product. Do not eat, drink, smoke while handling this product. Remove contaminated clothing immediately. Provide eyewash and safety shower stations in workplaces where this product is handled.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Flash Point & method:	>204°C (400°F)
Appearance, Color and Odor:	individually wrapped black tabs and white tabs; putty-like consistency.	Autoignition Temperature:	Not applicable
Odor Threshold:	Not applicable	Flammability Limits in Air:	Not applicable
pH:	Not available	Vapor Pressure:	Not available
Specific Gravity:	>1	Vapor Density:	Not available
Partition coefficient: (n-octanol/water)	Not available	Evaporation Rate:	Not available
Solubility in water:	Insoluble	Boiling Point/Range:	Not available
Viscosity:	Not available	Melting Point:	Not available
Decomposition Temperature:	Not available	VOC Content:	Not available

Section 10: Stability and Reactivity

Chemical Stability: Stable at normal room temperature.

Conditions to Avoid: Do not use in conditions of extreme heat.

Incompatible Materials: Organic acids and mineral acids.
 Strong oxidizing agents.
 Corrosive to copper, aluminum, zinc and galvanized surfaces.
 May react with peroxides with the risk of an explosion.

Hazardous Decomposition Products: Corrosive and toxic substances including ammonia and nitric acid may form when heated to decomposition.

Possibility of Hazardous Reactions: Not available

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Section 11: Toxicological Information

Acute Toxicity Data

Acute toxicity data is not available for the mixture.

<u>Ingredient</u>	<u>LD₅₀ Oral</u> (mg/kg)	<u>LD₅₀ Dermal</u> (mg/kg)	<u>LC₅₀ Inhalation</u> (4 hrs.)
2-piperazin-1-ylethylamine	1 470 (rat)	865 (rabbit)	> 890 ppm (rat)
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	>2 000 (rat)	8 550 (rabbit)	Not available
Nonylphenol	580 (rat)	Not available	Not available
3,6,9-triazaundecamethylenediamine	2 100 – 3 999 (rat)	660 (rabbit)	> 150 mg/m ³ (rat)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	11 400 (rat)	Not available	Not available

Other Toxicity Data

Carcinogenicity:	Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).
Irritation:	Severely irritating or corrosive when in contact with skin and eyes. Over-exposure to dusts can be severely irritating to the nose, throat and respiratory tract.
Corrosivity:	Causes burns to eyes and skin.
Sensitization:	Product contains substances which are known to cause an allergic skin reaction. There is no test data available for the product.
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not available
Target Organ Effects:	Eyes, skin, respiratory system.

Section 12: Ecological Information

Ecotoxicity:	Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
Persistence/Degradability:	Not available
Bioaccumulation/Accumulation:	Not available
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method:	Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage. The conditions of use, storage and disposal 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.
USA:	Dispose of in accordance with local, state and federal laws and regulations.
Canada:	Dispose of in accordance with local, provincial and federal laws and regulations.
EC:	Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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Section 14: Transport Information:

UN 3259, AMINES, SOLID, CORROSIVE, N.O.S. (N-AMINOETHYLPIPERAZINE), Class 8, PG III	
U.S. Hazardous Materials Regulation (DOT 49CFR):	May be shipped as Dangerous Goods in Limited Quantities. When packaged in quantities less than 5 kg, this material can be shipped as a “Consumer Commodity ORM-D” Exemption. Shipment from US going to Canada may transport as per 49 CFR (TDG Section 9.1).
Canadian Transportation of Dangerous Goods (TDG):	May be shipped as Dangerous Goods in Limited Quantities When packaged in quantities less than 5 kg this material can be shipped as a “Consumer Commodity” as per part 1.17 of the TDG Regulations. Shipment from Canada to the US may transport as per TDG Regulations (49 CFR Part 171.12a)
ADR/RID:	May be shipped as Consumer Commodity or Dangerous Goods in Limited Quantities.
IMDG:	UN 3259, AMINES, SOLID, CORROSIVE, N.O.S. (N-AMINOETHYLPIPERAZINE), Class 8, PG III, Ltd. Qty.
Marine Pollutants:	Not available
ICAO/IATA:	UN 3259, AMINES, SOLID, CORROSIVE, N.O.S. (N-AMINOETHYLPIPERAZINE), Class 8, PG III, Ltd. Qty.

Section 15: Regulatory Information

<u>USA</u>	
TSCA Status:	All component substances are listed on the TSCA inventory.
SARA Title III	
Sec. 302/304:	None
Sec. 311/312:	Acute health; Corrosive
Sec. 313:	Not applicable
CERCLA RQ:	Not applicable
California Prop 65:	This product contains the following chemicals known to the State of California to cause cancer: Carbon Black*, Crystalline silica.* *As sold, this product does not contain Carbon Black or Crystalline silica as airborne, or unbound particles of respirable size.
State Right-to-Know Lists :	2-piperazin-1-ylethylamine can be found on the following state right to know lists: California, Massachusetts, New Jersey, Pennsylvania. Carbon black can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
<u>Canada</u>	
This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the MSDS contains all the information required by the <i>Controlled Products Regulations</i> .	
WHMIS Classification:	E - Corrosive
DSL:	All component substances are listed on Canada’s Domestic Substances List (DSL).
NPRI Substances:	Not available

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EC Classification for the Substance/Preparation

European Inventories: All component substances are listed in EINECS.

Symbol:



Corrosive



Dangerous for the environment

Risk Phrases:

R34: Causes burns.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S1/2: Keep locked up and out of the reach of children.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment; refer to special instructions/Safety Data Sheet.

Section 16: Other Information

Full Text of R-phrases appearing in Section 2:

R21/22: Harmful in contact with skin and if swallowed.
R22: Harmful if swallowed.
R43: May cause sensitization by skin contact.
R34: Causes burns.
R36/38: Irritating to eyes and skin.
R50-53 – Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
R51-53: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
R52-53: Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.

Preparation Information:

Prepared by:

LEHDER Environmental Services Limited (519) 336-4101
www.lehder.com

Revision Date:

February 18, 2011

Disclaimer:

While LEHDER Environmental Services Limited believes that the data set forth herein is accurate, as of the date hereof, LEHDER makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

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