



Form

F 7.3.29

MATERIAL SAFETY DATA SHEETRev: B
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Date: 01/25/07

MATERIAL SAFETY DATA SHEET

----- I. PRODUCT IDENTIFICATION -----

TRADE NAME (as labeled): LATAPOXY® 2000 Industrial Epoxy Grout Part A

CHEMICAL FAMILY: Amine epoxy curing agent

MANUFACTURER'S NAME: LATICRETE INTERNATIONAL, INC.
1 Laticrete Park, N.
Bethany, CT 06524-3423 USA

Phone number for additional information: (203) 393-0010

Date prepared or revised: 1/09 Name of preparer: S.B. Fine

----- II. HAZARDOUS INGREDIENTS -----

| CHEMICAL NAMES | CAS NUMBERS | PERCENT | ACGIH TLV | OSHA PEL | OTHER (SPECIFY) |
|---|--------------|---------|-----------|----------|-----------------|
| Tall Oil Fatty Acid Reaction Products with Tetraethylenepentamine | 68953-36-6 | 45-55 | N/A | N/A | N/A |
| Tetraethylenepentamine | 112-57-2 | 8-15 | N/A | N/A | N/A |
| N-aminoethylpiperazine | 140-31-5 | 2-5 | N/A | N/A | N/A |
| Diethylene Triamine (DETA) | 111-40-0 | 5-8 | N/A | N/A | ACGIH TWA 1 ppm |
| Bisphenol A | 80-05-7 | 5-8 | N/A | N/A | N/A |
| Modified cycloaliphatic amine | Trade Secret | 5-8 | N/A | N/A | N/A |
| Benzyl alcohol | 100-51-6 | 5-8 | 10 ppm | N/A | N/A |

N/A = Not applicable or available



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I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): LATAPOXY® 2000 Industrial Grout Part B

CHEMICAL FAMILY: Epoxy Resin

MANUFACTURER'S NAME: LATICRETE INTERNATIONAL, INC.
1 Laticrete Park, N.
Bethany, CT 06524-3423 USA

Phone number for additional information: (203) 393-0010

Date prepared or revised: 1/09 Name of preparer: S.B. Fine

II. HAZARDOUS INGREDIENTS

| CHEMICAL NAMES | CAS NUMBERS | PERCENT | ACGIH TLV | OSHA PEL | OTHER (SPECIFY) |
|--|-------------|---------|-----------|----------|-----------------|
| Phenol, 4,4'-(1 - methylethylidene) Bis-, polymer w/ (chloromethyl)oxirane | 25068-38-6 | 14-40 | N/A | N/A | N/A |
| Phenol-Formaldehyde Polymer Glycidyl Ether | 28064-14-4 | 55-85 | N/A | N/A | N/A |

N/A = Not applicable or available

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer Term Effects) None Known

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Inhaled: May cause irritation of respiratory tract.

Contact with skin or eyes: Minor transient irritation for eye contact. No corneal injury likely. May cause allergic skin reaction. Prolonged exposure not likely to cause skin irritation. Skin sensitizer

Absorbed through skin: Not likely to absorb through skin in toxic amount in a single prolonged exposure.

Swallowed: N/A

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the lists below.

YES: Federal OSHA NTP IARC



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Health = 1 Flammability = 0 Reactivity = 1 PPE = Gloves and Glasses

IV. FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Wash off in flowing water or shower for at least 15 minutes. Seek medical attention. Wash clothing before reuse.

Inhaled: If inhaled, remove to fresh air. If effects occur consult a physician

Swallowed Do not induce vomiting. Immediately give at least 3 – 4 glasses of water. Call a physician

V. FIRE AND EXPLOSION

Flash Point method): >200°F

Auto ignition temperature, °F: N/A

Flammable limits in air, volume %:

Lower (LEL) _____

Upper (UEL)

Fire extinguishing materials:

water spray

carbon dioxide

_____ other:

foam

dry chemical

Special fire fighting procedures: Wear positive pressure self contained breathing apparatus

Unusual fire and explosion hazards: Decomposition & combustion products may be toxic.

VI. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Soak up in absorbent material or scrape up. Residual can be removed with hot water and a nonionic surfactant. Wear goggles, rubber gloves, long sleeved clothing.

Preparing wastes for disposal (container types, neutralization, etc.): Burn in adequate incinerator or bury in an approved landfill.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.



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-----VII. Handling and Storage-----

Store in cool dry area.

----- VIII. Exposure Controls and Personal Protection -----

Ventilation and engineering controls: Good room ventilation should be adequate for most operations

Respiratory protection (type): None normally needed

Eye protection (type): Chemical splash proof goggles, safety glasses

Gloves (specify material): Rubber or polyethylene gloves

Other clothing and equipment: clean, body-covering clothing

Work practices, hygienic practices: N/A

Other handling and storage requirements: N/A

Protective measures during maintenance of contaminated equipment: See above

----- IX. PHYSICAL PROPERTIES -----

Vapor density (air=1): N/A

Melting point or range, °F: N/A

Specific gravity: 1.17

Boiling point or range, °F: N/A

Solubility in water: insoluble

Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20°C: N/A

Appearance and odor: thick opaque liquid

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist):

----- X. REACTIVITY DATA -----

Stability: x Stable Unstable

Conditions to avoid: Excess heating over long periods of time degrades the resin

Incompatibility (materials to avoid): Strong oxidizing agents

Hazardous decomposition products (including combustion products): (from burning, heating, or reaction with other materials). Carbon monoxide, carbon dioxide, aldehydes

Hazardous polymerization: May occur x Will not occur

Conditions to avoid: Masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build up.



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-----XI. Toxicology Information-----

Acute Oral (LD50) Rat greater than 5000 mg/kg

Acute Dermal (LD50) Rabbit greater than 3000 mg/kg

Inhalation Toxicity (LC50) Rat >1.7 mg/l for a 4 hour aerosol exposure (maximum concentration attained.)

Mutagenicity Ames Test with and without microsomal activation: Positive

-----XII. Ecological Information-----

None Known

-----XIII. Disposal Information-----

Dispose in compliance with local, state, and federal regulations.

-----XIV. Transport Information-----

No special labeling or transportation placarding is required.

-----XV. Regulatory Information-----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

This product contains a chemical known to the State of California to cause cancer or reproductive harm.

-----XVI Other Information-----

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate.



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----- I. PRODUCT IDENTIFICATION -----

TRADE NAME (as labeled): LATAPOXY® 2000 Industrial Epoxy Grout Part C

CHEMICAL FAMILY: Proprietary Blend

MANUFACTURER'S NAME: LATICRETE INTERNATIONAL, INC.
1 Laticrete Park, N.
Bethany, CT 06524-3423 USA

Reviewed & Approved By:
Steven B. Fine
Steven B. Fine
Sr. Research Chemist/Safety Officer

Phone number for additional information: (203) 393-0010

Date prepared or revised: 1/08 Name of preparer: S.B. Fine

----- II. HAZARDOUS INGREDIENTS -----

| CHEMICAL NAMES | CAS NUMBERS | PERCENT | ACGIH TLV | OSHA PEL | OTHER (SPECIFY) |
|------------------|-------------|---------|---------------------------|----------------------|-----------------|
| Silica Sand | 14808-60-7 | 50 - 90 | 50 micro g/m ³ | 10 mg/m ³ | N/A |
| Aluminum Oxide | 1344-28-1 | 0 - 4 | 10 mg/m ³ | 15 mg/m ³ | N/A |
| Titanium Dioxide | 13463-67-7 | 0 - 12 | 10 mg/m ³ | 15 mg/m ³ | N/A |

N/A = Not applicable or available

----- III. HEALTH HAZARD INFORMATION -----

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer Term Effects) Inhaled: Symptoms are dyspnea-caused by many lung scars that develop from the dust-pain in chest, decreased vital Chronic lung scarring leads to a progressive massive fibrosis that is often accompanied by increased susceptibility to the risk of impaired health due to a combination of smoking and dust exposure. Persons with reduced pulmonary function may be at increased risk.

capacity and cough. Inhalation of the dust can cause silicosis and may cause lung cancer depending on duration and level of exposure

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects) Eye contact may cause eye irritation. Inhalation of dust may cause lung irritation.

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the lists below.

YES: Federal OSHA NTP IARC



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-----IV. FIRST AID: EMERGENCY PROCEDURES-----

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: If irritation occurs, remove affected clothing and wash the skin exposed.

Inhaled: Remove to fresh area. For extreme respiratory distress, administer oxygen.

Swallowed Refer to physician

----- V. FIRE AND EXPLOSION -----

Flash Point method): Non Flammable or combustible

Auto ignition temperature, °F: N/A

Flammable limits in air, volume %: Lower (LEL) _____ Upper (UEL)

Fire extinguishing materials:

water spray carbon dioxide _____ other:
 foam dry chemical

Special fire fighting procedures: Wear self-contained breathing apparatus with full face piece and protective clothing.

Unusual fire and explosion hazards: This product may form explosive dust clouds in air.

----- VI. SPILL, LEAK, AND DISPOSAL PROCEDURES -----

Spill response procedures (include employee protection measures): Clean up with dustless method (use vacuum or wet sweeping). Wear NIOSH approved dust mask, safety glasses, gloves.

Preparing wastes for disposal (container types, neutralization, etc.): N/A

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

-----VII. Handling and Storage-----

Store in cool dry area.



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----- VIII. Exposure Controls and Personal Protection -----

Ventilation and engineering controls: normal ventilation

Respiratory protection (type): NIOSH approved disposable dust mask if PEL is exceeded

Eye protection (type): safety glasses

Gloves (specify material): cloth or impermeable gloves

Other clothing and equipment: long sleeved clothing

Work practices, hygienic practices: normal good housekeeping

Other handling and storage requirements: keep away from strong alkalis and oxidizers

Protective measures during maintenance of contaminated equipment: Wear NIOSH approved dust mask, safety glasses, gloves

----- IX. PHYSICAL PROPERTIES -----

Vapor density (air=1): N/A

Melting point or range, °F: N/A

Specific gravity: 2.3

Boiling point or range, °F: N/A

Solubility in water: Insoluble

Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20°C: N/A

VOC: 0 lb/gal

Appearance and odor: odorless free flowing colored powder

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist): N/A

----- X. REACTIVITY DATA -----

Stability: x Stable Unstable

Conditions to avoid: N/A

Incompatibility (materials to avoid): Exposure to hydrofluoric acid or strong alkalis or oxidizers.

Hazardous decomposition products (including combustion products): (from burning, heating, or reaction with other materials). May release carbon monoxide, carbon dioxide, nitrogen oxide, ammonia upon combustion.

Hazardous polymerization: May occur x Will not occur

Conditions to avoid: Exposure to strong oxidizers or alkalis



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-----XI. Toxicology Information-----

N/A

-----XII. Ecological Information-----

N/A

-----XIII. Disposal Information-----

Dispose in compliance with local, state, and federal regulations.

-----XIV. Transport Information-----

No special labeling or transportation placarding is required.

-----XV. Regulatory Information-----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

This product contains a chemical known to the State of California to cause cancer or reproductive harm.

-----XVI Other Information-----

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate.

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----- III. HEALTH HAZARD INFORMATION -----

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure. (Possible Longer Term Effects) On repeated over exposure could cause kidney and liver damage.

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Inhaled: Vapors may irritate eyes, nose and throat.

Contact with skin or eyes: Causes severe irritation and pain and may cause burns necrosis, and permanent injury. Burns of the eye may cause blindness. Contact with skin quickly causes severe irritation and pain and may cause burns necrosis, and permanent injury (corrosive).

Absorbed through skin: A single prolonged exposure is unlikely to result in the material being absorbed in harmful amounts. The LD 50 for skin absorption in rabbits is 12996 mg/kg.

Swallowed: A single dose oral toxicity is low. The oral LD 50 for rats is 21919 mg/kg. Ingestion may cause gastrointestinal irritation, ulceration; mouth and throat burns.

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the lists below.

YES: _____ Federal OSHA _____ NTP _____ IARC

Health = 2 Flammability = 0 Reactivity =1 PPE = NIOSH approved canister vapor mask, gloves, glasses

-----IV. FIRST AID: EMERGENCY PROCEDURES-----

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for a least 15 minutes while removing contaminated clothing or shoes. Call a physician if irritation persists. Wash clothing before reuse. See medical attention immediately.

Inhaled: If inhaled, remove to fresh air. If breathing has stopped administer artificial respiration and seek medical attention.

Swallowed Do not induce vomiting. Give large amounts of water or milk if available. Transport to a medical facility.



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V. FIRE AND EXPLOSION

Flash Point method): >200°F

Auto ignition temperature, °F: 676

Flammable limits in air, volume %:

Lower (LEL) _____

Upper (UEL)

Fire extinguishing materials:

water spray

carbon dioxide

_____ other:

foam

dry chemical

Special fire fighting procedures: NFPA class II of HMIS class I rating. Wear full protective gear and NIOSH/MSHA approved self-contained breathing apparatus

Unusual fire and explosion hazards: Solid stream of water or foam may cause frothing and splattering and spread hazard.

VI. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Dam and absorb spill with absorbent materials, minimize breathing vapors. Increase ventilation. Wear impervious gloves, safety goggles, and NIOSH approved organic vapor canister type respirator.

Preparing wastes for disposal (container types, neutralization, etc.): Absorb spill on sand, earth, or vermiculite. Carefully collect into closed containers for disposal. Wash spill area with 5% acetic acid then flush with water. Do not sewer.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

VII. Handling and Storage

Store in cool dry area.

VIII. Exposure Controls and Personal Protection

Ventilation and engineering controls: General ventilation should be adequate.

Respiratory protection (type): In confined areas, a NIOSH approved organic vapor canister type respirator should be worn.

Eye protection (type): Chemical splash proof goggles.

Gloves (specify material): Rubber or polyethylene gloves.

Other clothing and equipment: Long sleeved shirt and long trousers



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Work practices, hygienic practices: N/A

Other handling and storage requirements: N/A

Protective measures during maintenance of contaminated equipment: See above.

----- IX. PHYSICAL PROPERTIES -----

Vapor density (air=1): 3.56

Melting point or range, °F: N/A

Specific gravity: 0.96

Boiling point or range, °F: 390

Solubility in water: partially soluble

Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20°C: Less than 1mm Hg @ 200C

Appearance and odor: Amber colored liquid with amine odor

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist):

----- X. REACTIVITY DATA -----

Stability: x Stable Unstable

Conditions to avoid: N/A

Incompatibility (materials to avoid): Avoid acids oxidizing agents, halogenated organic compounds

Hazardous decomposition products (including combustion products): (from burning, heating, or reaction with other materials). Carbon monoxide, carbon dioxide, oxides of nitrogen.

Hazardous polymerization: May occur x Will not occur

Conditions to avoid: Epoxy resins or isocyanates can cause polymerization.

----- XI. Toxicology Information -----

The LD 50 for skin absorption in rabbits is >2000 mg/kg.

The oral LD 50 for rats is >2000 mg/kg.

----- XII. Ecological Information -----

N/A

----- XIII. Disposal Information -----

Dispose in compliance with local, state, and federal regulations.



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-----XIV. Transport Information-----

DOT NON-BULK SHIPPING NAME: UN2735 Amines, liquid, corrosive, n.o.s.
Technical Name (Polyamines and Tetraethylenepentamine) Class 8 PG II

For material in inner packagings not over 1 liter (0.3 gallon) can be classified Consumer Commodity ORM-D.

IMO SHIPPING DATA: UN2735 Amines, liquid, corrosive, n.o.s.
Technical Name (Polyamines and Tetraethylenepentamine) Class 8 PG II

ICAO/IATA SHIPPING DATA: UN2735 Amines, liquid, corrosive, n.o.s.
Technical Name (Polyamines and Tetraethylenepentamine) Class 8 PG II

-----XV. Regulatory Information-----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.
Diethylene Triamine (DETA)-PA1-Pennsylvania Hazardous Substances List PA2-Pennsylvania Special Hazardous Substances List MA1-Massachusetts Hazardous Substances List, MA2-Massachusetts Extraordinary Hazardous Substance List NJ1-New Jersey Workplace hazardous substances List.

NJ2-New Jersey Special Health Hazards List CN-Canadian Ingredient Disclosure List NL-Not listed, Concentration Based Disclosure

This product contains the following chemicals, Bisphenol A, subject to the reporting requirements of Section 313 of the Emergency Planning and Community right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDS's that are copies and distributed for this material. SARA Section 311 and 312 hazard classification(s) for this product are listed below: Immediate (acute) health hazard; Delayed (chronic) health hazard

W.H.M.I.S. Code E

-----XVI Other Information-----

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate.