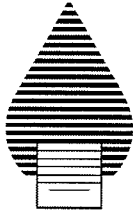


Material Safety Data Sheet

COMPANY INFORMATION



Applichem, Inc.

5710 "F" Street
Omaha, NE 68117

PH # 1.402.731.9300
FX # 1.402.731.1473

EMERGENCY # 1.800.424.9300 (Chemtrec)

1. PRODUCT INFORMATION

PRODUCT NAME

L.R1160 A Fast Cure Epoxy

DESCRIPTION

Epoxy Resin Adhesive

2. HAZARDOUS INGREDIENTS

Hazardous Components	Chemical Identity	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Bisphenol-A	Not Established.....				>98

3. PHYSICAL & CHEMICAL CHARACTERISTICS

Form: Viscous Liquid

Color: Clear

Solubility in Water: Negligible

Boiling Point: >-260°C

Specific Gravity@25°C : 1.17

Vapor Pressure@77°C : 0.03mbar

4. FIRE & EXPLOSION HAZARD DATA

Flash Point –

249°C

Special Fire Fighting Procedure –

Water fog, foam, dry chemical or CO2.

Specific Hazards During Fire Fighting –

Material will not burn unless preheated.

5. STABILITY & REACTIVITY

Stability –

Stable under normal use conditions

Hazardous Polymerization –

Will not occur

Incompatibility –

Strong oxidizer, acids, bases.

Conditions to Avoid –

Avoid high temperatures.

Hazardous Decomposition Products –

No applicable information found.

6. HEALTH HAZARD DATA

Human Health Hazards –

May be irritating to the eyes and skin. Contact with hot material can cause thermal burns. May cause skin sensitizations.

Inhalation: Not expected to be a relevant route of exposure, however, under conditions where exposure is possible, could cause respiratory tract irritation.

Skin: May be mildly irritating to the skin. Contact with hot material can cause thermal burns which may result in permanent damage. May cause skin sensitization.

Eyes: May be mildly irritating to the eye. Contact with hot material can cause thermal burns which may result in permanent damage or blindness.

Ingestion: Not likely to be a relevant route of exposure.

Emergency and First Aid Procedures –

Ingestion: Do not induce vomiting. Have victim rinse out mouth with water, then drink sips of water to remove taste from mouth. In general, no treatment is necessary unless large quantities are ingested. However, get medical advice. If vomiting occurs, keep head below hips to prevent aspiration.

Inhalation: Remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Skin Contact: Wipe excess material from exposed area. Flush with water and follow by washing with soap.

Eye Contact: Flush eye with water. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling persist, consult a physician.

Safety Hazards –

Material will not burn unless prohibited.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Accidental Release Measures –

Shut off leaks, if possible without personal risk. Dike and contain. Soak up with an absorbent such as clay or sand. Flush area with water to remove trace residue. Dispose of in accordance with all pertinent national legislation.

Handling and Storage –

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. WARNING. May cause skin and eye irritation. Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use. Keep away from open flames and high temperatures.

8. CONTROL MEASURES

Eye Protection –

Wear chemical goggles if there is a potential for contact with eyes.

Respiratory Protection –

Not usually required under normal conditions of use.

Skin Protection –

Wear Butyl or EVAL-Laminated gloves to minimize contact.

March 23, 2010

Material Safety Data Sheet

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FX # 1.402.731.1473

EMERGENCY # 1.800.424.9300 (Chemtrec)

1. PRODUCT INFORMATION

PRODUCT NAME

L.R1160 B Fast Cure Hardener

DESCRIPTION

Epoxy Hardener

2. HAZARDOUS INGREDIENTS

Hazardous Components	Chemical Identity	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Amine Compound	Not Established.....				<10%

3. PHYSICAL & CHEMICAL CHARACTERISTICS

Form: Liquid

Odor: Mercaptan-like odor

Color: Slight Yellow

Solubility in Water: Negligible

Boiling Point: Not determined

Specific Gravity@25°C : 1.11 to 1.13

Vapor Pressure@77°C : Not determined

4. FIRE & EXPLOSION HAZARD DATA

Flash Point –

>200°F

Extinguishing Media –

Foam, dry chemical or CO₂.

Special Fire Fighting Procedure –

Wear self contained breathing apparatus.

Hazardous Decomposition Products –

Oxides of carbon, nitrogen and sulfur; hydrogen sulfides.

5. STABILITY & REACTIVITY

Stability –

Stable under normal use conditions

Hazardous Polymerization –

Will not occur

Incompatibility –

Oxidizers

Conditions to Avoid –

Avoid high temperatures

Hazardous Decomposition Products –

Oxides of carbon, nitrogen and sulfur, hydrogen sulfide.

6. HEALTH HAZARD DATA

Health Hazards –

Harmful if inhaled. Harmful if swallowed. May cause delayed lung injury. Causes irritation to respiratory tract if inhaled. Causes skin and eye irritation. May cause skin sensitization.

Routes of Entry –

Skin

Target Organs –

None known

Irritancy –

Skin, eyes.

Sensitizing Capability –

May cause skin sensitizations

Reproductive Effects –

None known

Cancer Information –

None known

Exposure (Acute) –

Inhalation: Considered slightly toxic. Can cause irritation.

Eyes: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: Harmful if swallowed

Exposure (Chronic) –

Dermatitis, chemical pneumonia, allergic reaction

Synergistic Material –

None known

Medical Conditions Aggravated by Exposure –

May aggravate existing skin, eye and lung conditions.

Emergency and First Aid Procedures –

Ingestion: If swallowed, immediately drink a large quantity of milk or water and call a physician.

Inhalation: Remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Skin contact: Flush with water for at least 15 minutes while removing contaminated clothing and shoes.

Eye Contact: Flush with water for at least 15 minutes. Get medical attention.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled –

Dike and contain. Soak up with absorbent such as clay or sand. Flush area with water to remove trace residue. Dispose of in accordance with all pertinent national legislation.

Precautions to be Taken in Safe Handling and Storage –

Avoid contact with skin, eyes and clothing. Do not store near resinous materials with epoxy functionality. Keep container closed and properly labeled.

8. CONTROL MEASURES

Eye Protection –

Wear full-face shield or chemical safety goggles.

Respiratory Protection –

Use a NIOSH approved full-face respirator with organic vapor acid gas cartridge when handling this material unless local exhaust.

Skin Protection –

Wear rubber, neoprene, or vinyl gloves, and work clothing with full length sleeves.

Engineering Controls –

Handle product in a well ventilated area.

March 23, 2010