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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Fast Cure Epoxy  
**Product type:** Epoxy Hardener  
**Company address:** Henkel Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067

**Item number:** 21425\_HARDENER  
**Region:** United States  
**Contact Information:**  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.loctite.com

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Alumina trihydrate 21645-51-2	30-60	None	None	None
Polymercaptan hardener	30-60	None	None	None
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	5-10	None	None	None
Aromatic plasticizer 64741-81-7	5-10	None	None	None
Styrene monomer 100-42-5	1-5	20 ppm TWA 40 ppm STEL	100 ppm TWA 200 ppm Ceiling	None
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA	3 mg/m <sup>3</sup> TWA respirable dust
Ethylene glycol 107-21-1	1-5	100 mg/m <sup>3</sup> Ceiling	None	None
Benz{a}anthracene 56-55-3	0.1-1	None	None	None

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

HMIS:

<b>Physical state:</b> Paste	<b>HEALTH:</b>	2
<b>Color:</b> Black	<b>FLAMMABILITY:</b>	1
<b>Odor:</b> Mercaptan	<b>PHYSICAL HAZARD:</b>	1
	<b>Personal Protection:</b>	See Section 8

**WARNING:** CAUSES EYE AND SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Relevant routes of exposure:** Eye contact, Ingestion, Inhalation, Skin contact

**Potential Health Effects**

**Item number:** 21425\_HARDENER

**Product name:** Fast Cure Epoxy

**Inhalation:** May cause respiratory tract irritation. May cause irritation to nose and throat. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation. Shortness of breath.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Itching. Redness.  
**Eye contact:** Moderate eye irritation. Redness. Tissue damage.  
**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Nausea. Vomiting.

**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.

See Section 11 for additional toxicological information.

#### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If symptoms develop and persist, get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention if symptoms develop and persist.

**Notes to physician:** None.

#### 5. FIRE-FIGHTING MEASURES

**Flash point:** Greater than 93°C (200°F) Tagliabue closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not available

**Flammable/Explosive limits-upper %:** Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

**Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of carbon. Irritating organic fragments.

#### 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Prevent product from entering drains or open waters.

**Clean-up methods:** Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.
<b>Eye/face protection:</b>	Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Black
<b>Odor:</b>	Mercaptan
<b>Vapor pressure:</b>	Nil
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Greater than 149°C (300°F)
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.40
<b>Vapor density:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Slightly soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	14.3%; 200 grams/liter 0.038% (value for resin and hardener together)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	None
<b>Incompatibility:</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Conditions to avoid:</b>	Excessive heat. Storage with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Alumina trihydrate 21645-51-2	No	No	No
Polymercaptan hardener	No	No	No
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	No	No	No
Aromatic plasticizer 64741-81-7	No	No	No
Styrene monomer 100-42-5	No	Group 2B	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Ethylene glycol 107-21-1	No	No	No
Benz(a)anthracene 56-55-3	Suspect Carcinogen	Group 2A	No

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Alumina trihydrate 21645-51-2	Irritant, Lung, Respiratory
Polymercaptan hardener	No data
Phenol, 2,4,6- tris[(dimethylamino)methyl] 90-72-2	Allergen, Irritant
Aromatic plasticizer 64741-81-7	No Target Organs
Styrene monomer 100-42-5	Blood, Ear, Eyes, Irritant, Liver, Mutagen, Nervous System, Some evidence of carcinogenicity
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Ethylene glycol 107-21-1	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic
Benz(a)anthracene 56-55-3	Blood, Immune system, Irritant, Liver, Mutagen, Respiratory, Skin, Some evidence of carcinogenicity

### 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose according to EPA and local governmental regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

**U.S. Department of Transportation Ground (49 CFR):**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None

**Item number:** 21425\_HARDENER

**Product name:** Fast Cure Epoxy

Identification number: None  
Packing group: None

**WaterTransportation (IMO/IMDG):**

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None  
Marine pollutant: None known

**15. REGULATORY INFORMATION**

**United States Regulatory Information**

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
TSCA 12 (b) Export Notification: None.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.  
CERCLA/SARA Section 311/312: Immediate Health Hazard  
CERCLA/SARA 313: Ethylene glycol (CAS# 107-21-1) . Styrene monomer (CAS# 100-42-5) .

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. 1,4-Dioxane (CAS# 123-91-1). Acetaldehyde (CAS# 75-07-0). Ethylene oxide (CAS# 75-21-8). Benz{a}anthracene (56-55-3). Formaldehyde (CAS# 50-00-0). Benzene (CAS# 71-43-2).

**Canada Regulatory Information**

CEPA DSL/NDL Status: Contains one or more components listed on the Non-Domestic Substances list.  
WHMIS hazard class: D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

Prepared by: Gary Pierson, Health and Regulatory Affairs Specialist

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