

Revision Number: 003.0 Issue date: 09/01/2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 3473 known as Fixmaster IDH number: 702088

**Fast Set Steel Putty** 

Product type:Epoxy HardenerItem number:39917\_220000Restriction of Use:None identifiedRegion:United States

Company address:Contact information:Henkel CorporationTelephone: (860) 571-5100

One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center
Rocky Hill, Connecticut 06067

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

#### PICTOGRAM(S)



#### **Precautionary Statements**

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**Prevention:** Avoid breathing dust or fumes. Wash thoroughly after handling. Contaminated work clothing

should not be allowed out of the workplace. Wear eye and face protection. Wear protective

gloves

**Response:** IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage: Not prescribed

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Polymercaptan hardener	Proprietary	30 - 60	
Quartz (SiO2)	14808-60-7	10 - 30	
Calcium carbonate	471-34-1	10 - 30	
Aluminum	7429-90-5	1 - 5	
Substituted aminophenol	Proprietary	1 - 5	
Titanium dioxide	13463-67-7	1 - 5	
Substituted aminophenol	Proprietary	0.1 - 1	
Aluminium hydroxide	21645-51-2	0.1 - 1	

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Get medical attention. Wash clothing

before reuse. Thoroughly clean shoes before reuse.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

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### 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

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

extreme heat. May liberate large quantities of dense, foul-smelling smoke

which may contain unidentified toxic gasses.

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapors. Oxides of sulfur.

Ammonia

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

### 7. HANDLING AND STORAGE

**Handling:** Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

**Storage:** Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Store away from heat, sparks, flames, or other

sources of ignition.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Polymercaptan hardener	None	None	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	0.3 mg/m3 TWA Total dust. 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable.	None	None
Calcium carbonate	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Aluminum	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL (as Al) Respirable dust. 15 mg/m3 PEL (as Al) Total dust.	None	None
Substituted aminophenol	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 PEL Total dust.	None	None
Substituted aminophenol	None	None	None	None
Aluminium hydroxide	10 mg/m3 TWA (as Al) Total dust. 1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction.	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste White Color: Odor: Pungent Odor threshold: Not available. pH: Not available. Vapor pressure: Not determined Boiling point/range: 199 °C (390.2 °F) Melting point/ range: Not available. Specific gravity: 1.7551

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Vapor density: Heavier than air.

Flash point: 121 °C (249.8 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.

**Evaporation rate:** Slower than butyl acetate.

Solubility in water: Slight

Partition coefficient (n-octanol/water): Not available.

**VOC content:** < 1.0 % (value for resin and hardener together) (estimated)

Viscosity: Not available.

Decomposition temperature: Not available.

## 10. STABILITY AND REACTIVITY

**Stability**: Stable under normal conditions of storage and use.

**Hazardous reactions:** None under normal processing.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Ammonia. Irritating organic vapours.

**Incompatible materials:** Strong bases. Strong oxidizing agents. Chlorinated rubber. Reaction with epoxy resins and/or

isocyanates in large amounts or under uncontrolled conditions releases considerable heat and

may release acrid fumes.

Reactivity: Not available.

**Conditions to avoid:** Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

### 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system. Vapors

may cause headaches, nausea, dizziness and respiratory tract irritation.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction. Redness.

Eye contact: Causes serious eye irritation. Redness. May injure eye tissue if not removed promptly.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Polymercaptan hardener	None	No Records	
Quartz (SiO2)	None	Immune system, Lung, Some evidence of carcinogenicity	
Calcium carbonate	Oral LD50 (RAT) = 6,450 mg/kg	Nuisance dust	
Aluminum	None	Central nervous system, Irritant, Lung	
Substituted aminophenol	None	Irritant, Allergen	
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity	
Substituted aminophenol	None	No Records	
Aluminium hydroxide	Oral LD50 (RAT) = > 5,000 mg/kg	Irritant, Lung, Respiratory	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polymercaptan hardener	No	No	No
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No
Calcium carbonate	No	No	No
Aluminum	No	No	No
Substituted aminophenol	No	No	No
Titanium dioxide	No	Group 2B	No
Substituted aminophenol	No	No	No
Aluminium hydroxide	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

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

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

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

International Air Transportation (ICAO/IATA)

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Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None
None

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Water Transportation (IMO/IMDG)

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

#### 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 above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis
Immediate Health, Delayed Health
This product contains the following

CLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Aluminum (CAS# 7429-90-5).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

IDH number: 702088

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

#### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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