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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Fixmaster(R) Underwater Repair Epoxy
Product type: Epoxy Resin
Company address:
Henkel Loctite Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item number: 82093
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>
Talc 14807-96-6	30-60	2 mg/m ³ TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica)	20 mppcf	50 ppm
Sodium aluminum borosilicate 65997-17-3	10-30	1 f/cc TWA (respirable fibers: length > 5 um, aspect ratio equal to or greater than 3:1)	None	None
Zinc sulfide 1314-98-3	5-10	5 mg/m ³ TWA (inhalable particulate)	None	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	5-10	None	None	None
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	5-10	None	None	None
Polymeric phenolic amine 32610-77-8	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Putty
Color: Green White
Odor: Amine, Fishy

HEALTH: 1
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE AND SKIN IRRITATION.

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

Potential Health Effects

Item number: 82093

Product name: Fixmaster(R) Underwater Repair Epoxy

Inhalation: Mild respiratory tract irritation. May cause irritation to nose and throat.
Skin contact: Allergic skin reaction. Itching. Redness. Mild skin irritation.
Eye contact: Mild eye irritation. Redness.
Ingestion: May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Skin 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)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Water spray (fog), 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: None

Hazardous combustion products: Aldehydes. Acids. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. 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

Handling:	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.
Storage:	Store at or below 32.2°C (90°F). 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.
Incompatible products:	Refer to Section 10.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Putty
Color:	Green White
Odor:	Amine, Fishy
Vapor pressure:	Nil
pH:	Not applicable
Boiling point/range:	Greater than 260°C (500°F)
Melting point/range:	Not available
Specific gravity:	1.9
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	<1%

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	None
Incompatibility:	None
Conditions to avoid:	None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Talc	No	No	No
Sodium aluminum borosilicate	Suspect Carcinogen	No	No
Zinc sulfide	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Phenol, polymer with formaldehyde, glycidyl ether	No	No	No
Polymeric phenolic amine	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Talc	Some evidence of carcinogenicity, Lung, Irritant
Sodium aluminum borosilicate	Allergen, Respiratory
Zinc sulfide	Blood, Immune system, Irritant, Kidney, Metabolic, Pancreas, Respiratory, Gastrointestinal, Nervous System
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant
Phenol, polymer with formaldehyde, glycidyl ether	Allergen, Irritant
Polymeric phenolic amine	No Records

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
Identification number: None
Packing group: None

Water Transportation (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.
CERCLA/SARA Section 311/312: Immediate Health Hazard
CERCLA/SARA 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). Zinc sulfide (CAS# 1314-98-3).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. Sodium Aluminum Borosilicate (CAS# 65997-17-3).

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the 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.

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