

HENKEL CORPORATION  
 32150 JUST IMAGINE DRIVE  
 AVON, OHIO  
 TELEPHONE: (440) 937-7000

## MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Epoxy Putty  
 IDH number: 431348, 1050317  
 Product Type: Epoxy Putty

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

|   |             |         |
|---|-------------|---------|
| Glycidyl ethers of bisphenol A resins   | 25068-38-6  | 5-10    |
| Zinc sulfide                            | 1314-98-3   | 3-7     |
| Diglycidyl ethers of bisphenol A resins | 028064-14-4 | 1-5     |
| Polymeric phenolic amine                | 32610-77-8  | 1-5     |
| Tri (dimethylaminomethyl) Phenol        | 90-72-2     | 0.1-1.0 |

\*\*\* All ingredients in this product are listed in the T.S.C.A. inventory. Refer to Section 8 for occupational exposure limits.

## 3. HAZARDS IDENTIFICATION

## \*\*\*\*EMERGENCY OVERVIEW\*\*\*\*

PHYSICAL STATE: Putty COLOR: Green/White ODOR: Amine. Fishy  
 Solubility (in water): Insoluble in water Vapor Density: Non Volatile  
 % Volatile Weight: 0 % % Volatile: < 1.0% VOC: < 1.0% Specific Gravity: 1.9

Note: The physical data represented above are typical values and should not be construed as a specification. For additional physical data, and details on use, please obtain a technical data sheet for this product.

## Potential Health Effects

Eye: Irritant and possible sensitizer.

Skin: Irritant and possible sensitizer.

Ingestion: Irritation of intestinal tract.

Inhalation: Not expected to be to be harmful if inhaled.

Conditions Aggravated by Exposure: None known

Chronic: None known

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4. FIRST AID MEASURES

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

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

Ingestion:  
Seek medical advice.

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

Note to Physician:  
None.

5. FIRE FIGHTING MEASURES

Flash Point:  
Not Applicable

Extinguishing Media:  
In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Flammable Limits:  
Not available.

Special Fire Fighting Procedures:  
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products:  
Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Aldehydes.  
Acids.

Unusual Fire or Explosion Hazards:  
None.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:  
Scrape up material and dispose of in accordance with federal, state and local regulations.

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## 7. HANDLING AND STORAGE

## Handling:

Storage Temperature: < 90F (32C)

Storage Conditions: Store in cool, dry, well ventilated area.

Transfer: No special precautions are needed. Follow good manufacturing and handling practices.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves. Professionally launder contaminated clothing before re-use.

Empty container precautions: Attention! This container can be hazardous when empty. Follow label cautions even after the container is empty since empty containers can contain product residues. Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Occupational Exposure Limits

|   | ACGIH TLV  | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL   |
|---|------------|-------------|------------|-----------|------------|
| Glycidyl ethers of bisphenol A resins   | N/est      | N/est       | N/est      | N/est     | N/est      |
| Zinc sulfide                            | 5.00 mg/M3 | N/est       | N/est      | N/est     | 5.00 mg/M3 |
| Diglycidyl ethers of bisphenol A resins | N/est      | N/est       | N/est      | N/est     | N/est      |
| Polymeric phenolic amine                | N/est      | N/est       | N/est      | 5.00 PPM  | 5.0 PPM    |
| Tri (dimethylaminomethyl) phenol        | 5.00 PPM   | N/est       | N/est      | N/est     | N/est      |

## Engineering Controls:

Not normally needed. General room ventilation is usually adequate.

Use local ventilation if heated above 100oF (38oC).

## Eye/Face Protection:

Safety glasses or goggles

## Skin Protection:

Appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

## Respiratory Protection:

General Mechanical: None required. Local Exhaust: Only if heated above 100F

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Green exterior; white interior  
 Material State: Putty  
 Odor: Amine. Fishy  
 Boiling point: Not applicable.  
 pH: Not applicable.  
 Solubility in Water: Insoluble  
 Specific gravity: 1.9  
 VOC: <1.0%  
 Vapor Pressure: Not available.  
 Vapor density: Non Volatile.  
 Evaporation Rate: Not Volatile.

## 10. STABILITY AND REACTIVITY

Stability:  
 Stable.  
 Conditions to Avoid:  
 None known  
 Incompatibility:  
 None known  
 Hazardous Polymerization:  
 Will not occur.  
 Hazardous Decomposition Products:  
 Aldehydes, acids, and oxides of carbon, nitrogen, and sulfur.

## 11. TOXICOLOGY INFORMATION

Product Toxicology Data:  
 Not available.

| Ingredient                   | Carcinogen |      |      |
|------------------------------|------------|------|------|
|                              | NTP        | IARC | OSHA |
| Sodium aluminum borosilicate | No         | No   | No   |
| Epoxy resin                  | No         | No   | No   |
| Epoxy resin                  | No         | No   | No   |
| Zinc sulfide                 | No         | No   | No   |
| Polymeric phenolic amine     | No         | No   | No   |

Key to abbreviations:  
 IARC N/A - Not applicable.

| Ingredient                   | Health Effects/Target organs |
|------------------------------|------------------------------|
| Sodium aluminum borosilicate | Allergen. Respiratory.       |
| Epoxy resin                  | Allergen. Irritant.          |
| Epoxy resin                  | Allergen. Irritant.          |

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Zinc sulfide Blood. Immune system. Irritant.  
Kidney. Metabolic. Pancreas.  
Respiratory.  
Polymeric phenolic amine No Records.

## 12. ECOLOGICAL INFORMATION

Ecological Information:  
None known

## 13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:  
Dispose according to EPA and local governmental regulations.  
EPA Hazardous Waste Number:  
Not applicable.

## 14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

Shipping Description:  
Not regulated  
Exceptions:  
Not applicable.

International Air Transportation (ICAO/IATA)-

Shipping description:  
Not regulated.

Exceptions:  
Not applicable.

International Maritime Dangerous Goods (IMDG)-

Marine pollutant:  
None known

## 15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:  
Zinc sulfide

SARA Title III Section 311/312:  
Immediate health hazard

Toxic Substances Control Act:  
All components are listed on or are exempt from listing on the Toxic  
Substances Control Act Inventory.

TSCA Section 12(b) annual: None.

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TSCA Section 12(b) one time:

None.

Canadian Inventory Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

California Proposition 65:

This product contains no chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm

16. OTHER INFORMATION

NFPA Code:

Health: 3  
Flammability: 1  
Reactivity: 1  
Special: None

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