



# MATERIAL SAFETY DATA SHEET

---

---

## Section 1: Product & Company Identification

---

---

**Product Name:** Minute Mend™ Epoxy Putty

**Product Number (s):** 14070, 14071, 74070

**Product Use:** permanent repair of holes and gouges

### Manufacturer / Supplier Contact Information:

#### In United States:

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)  
1-215-674-4300 (General)  
(800) 521-3168 (Technical)  
(800) 272-4620 (Customer Service)

#### In Canada:

CRC Canada Co.  
2-1246 Lorimar Drive  
Mississauga, Ontario L5S 1R2  
[www.crc-canada.ca](http://www.crc-canada.ca)  
1-905-670-2291

#### In Mexico:

CRC Industries Mexico  
Av. Benito Juárez 4055 G  
Colonia Orquídea  
San Luís Potosí, SLP CP 78394  
[www.crc-mexico.com](http://www.crc-mexico.com)  
52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

---

---

## Section 2: Hazards Identification

---

---

### Emergency Overview

As defined by OSHA's Hazard Communication Standard, this product is not hazardous.  
Appearance & Odor: Green & white putty, amine odor

### Potential Health Effects:

#### ACUTE EFFECTS:

EYE: May cause moderate eye irritation.

SKIN: Has caused allergic skin reactions in humans. A single exposure is not likely to cause skin irritation. Prolonged and repeated contact may cause skin irritation with local redness.

INHALATION: Vapors are unlikely due to physical properties.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

CHRONIC EFFECTS: None known

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

**Product Name:** Minute Mend™ Epoxy Putty

**Product Number (s):** 14070, 14071, 74070

---

### Section 3: Composition/Information on Ingredients

---

| COMPONENT                       | CAS NUMBER | % by Wt. |
|---------------------------------|------------|----------|
| Diglycidyl Ether of Bisphenol A | 25085-99-8 | 7 – 13   |
| Novolac Epoxy Resin             | 28064-14-4 | 3 – 7    |
| Polymeric Phenolic Amine        | 32610-77-8 | 1 – 5    |

---

### Section 4: First Aid Measures

---

**Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

**Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

**Ingestion:** No medical treatment necessary.

**Note to Physicians:** Consider additional thorough skin wash with mild, non-abrasive soap and plenty of warm water for at least 15 minutes.

---

### Section 5: Fire-Fighting Measures

---

**Flammable Properties:** As defined by OSHA, this product is nonflammable.

|                           |               |                        |    |
|---------------------------|---------------|------------------------|----|
| Flash Point:              | > 140°F (TCC) | Upper Explosive Limit: | ND |
| Autoignition Temperature: | ND            | Lower Explosive Limit: | ND |

**Fire and Explosion Data:**

**Suitable Extinguishing Media:** Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog

**Products of Combustion:** Oxides of carbon, oxides of nitrogen and sulfur

**Explosion Hazards:** NA

**Protection of Fire-Fighters:** Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

---

### Section 6: Accidental Release Measures

---

**Personal Precautions:** Use personal protection recommended in Section 8.

**Environmental Precautions:** Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

**Methods for Containment & Clean-up:** Ventilate the area with fresh air. Wipe up uncured material. Organic solvents may be used to clean up residue. Place used absorbents into proper waste containers.

**Product Name:** Minute Mend™ Epoxy Putty

**Product Number (s):** 14070, 14071, 74070

---

## Section 7: Handling and Storage

---

**Handling Procedures:** No special precautions needed. Personal hygiene – wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Professionally launder contaminated clothing before use. Empty container precautions – do not reuse empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur. For product use instructions, please see the product label.

**Storage Procedures:** Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage.

**Aerosol Storage Level:** NA

---

## Section 8: Exposure Controls/Personal Protection

---

### Exposure Guidelines:

| COMPONENT                                                                                    | OSHA |      | ACGIH |      | OTHER |        | UNIT |
|----------------------------------------------------------------------------------------------|------|------|-------|------|-------|--------|------|
|                                                                                              | TWA  | STEL | TWA   | STEL | TWA   | SOURCE |      |
| Diglycidyl Ether of Bisphenol A                                                              | NE   | NE   | NE    | NE   | NE    |        |      |
| Novolac Epoxy Resin                                                                          | NE   | NE   | NE    | NE   | NE    |        |      |
| Polymeric Phenolic Amine                                                                     | NE   | NE   | NE    | NE   | NE    |        |      |
| N.E. – Not Established                      (c) – ceiling      (s) – skin      (v) – vacated |      |      |       |      |       |        |      |

### Controls and Protection:

**Engineering Controls:** Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

**Respiratory Protection:** None required for normal work where adequate ventilation is provided. Use a self-contained breathing apparatus in confined spaces and for emergencies.

**Eye/face Protection:** For normal conditions, wear safety glasses.

**Skin Protection:** Use protective gloves such as rubber if skin is sensitive.

---

## Section 9: Physical and Chemical Properties

---

**Physical State:** semi-solid; cures to solid

**Color:** green and white

**Odor:** amine

**Odor Threshold:** ND

**Specific Gravity:** 1.97201

**Initial Boiling Point:** 446°F

**Freezing Point:** ND

**Vapor Pressure:** ND

**Vapor Density:** ND (air = 1)

**Evaporation Rate:** NA

**Solubility:** insoluble in water

**Coefficient of water/oil distribution:** NA

**pH:** NA

**Volatile Organic Compounds:** wt %: 0

g/L: 0

lbs./gal: 0

**Product Name:** Minute Mend™ Epoxy Putty  
**Product Number (s):** 14070, 14071, 74070

---

---

## Section 10: Stability and Reactivity

---

---

Stability: Stable

Conditions to Avoid: None

Incompatible Materials: None

Hazardous Decomposition Products: Carbon dioxide, aldehydes, acids, oxides of sulfur and nitrogen

Possibility of Hazardous Reactions: No

---

---

## Section 11: Toxicological Information

---

---

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

### Acute Toxicity:

| <u>Component</u>                | <u>Oral LD50 (rat)</u> | <u>Dermal LD50 (rabbit)</u> | <u>Inhalation LC50 (rat)</u> |
|---------------------------------|------------------------|-----------------------------|------------------------------|
| Diglycidyl Ether of Bisphenol A | > 5000 mg/kg           | 20,000 mg/kg                | No data                      |
| Novolac Epoxy Resin             | > 2000 mg/kg           | > 2000 mg/kg                | No data                      |
| Polymeric Phenolic Amine        | > 2200 mg/kg           | No data                     | > 20 mg/L/1H                 |

### Chronic Toxicity:

| <u>Component</u>                | <u>OSHA Carcinogen</u> | <u>IARC Carcinogen</u> | <u>NTP Carcinogen</u> | <u>Irritant</u> | <u>Sensitizer</u> |
|---------------------------------|------------------------|------------------------|-----------------------|-----------------|-------------------|
| Diglycidyl Ether of Bisphenol A | No                     | No                     | No                    | No              | Unknown           |
| Novolac Epoxy Resin             | No                     | No                     | No                    | No              | Yes               |
| Polymeric Phenolic Amine        | No                     | No                     | No                    | S (moderate)    | Unknown           |

|         |          |                 |
|---------|----------|-----------------|
| E – Eye | S – Skin | R - Respiratory |
|---------|----------|-----------------|

Reproductive Toxicity: No information available  
Teratogenicity: No information available  
Mutagenicity: No information available  
Synergistic Effects: No information available

---

---

## Section 12: Ecological Information

---

---

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available  
Persistence / Degradability: No information available  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

---

---

## Section 13: Disposal Considerations

---

---

Waste Classification: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)  
Empty containers may be recycled.

**Product Name: Minute Mend™ Epoxy Putty**

**Product Number (s): 14070, 14071, 74070**

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

---

---

## Section 14: Transport Information

---

---

US DOT (ground): Not Regulated

ICAO/IATA (air): Not Regulated

IMO/IMDG (water): Not Regulated

Special Provisions: None

---

---

## Section 15: Regulatory Information

---

---

### U.S. Federal Regulations:

#### Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

#### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

**Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.**

#### Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

|                                    |                       |    |
|------------------------------------|-----------------------|----|
| Section 311/312 Hazard Categories: | Fire Hazard           | No |
|                                    | Reactive Hazard       | No |
|                                    | Release of Pressure   | No |
|                                    | Acute Health Hazard   | No |
|                                    | Chronic Health Hazard | No |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
None

#### Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

### U.S. State Regulations:

#### California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: This product is compliant under the category of Sealants and Caulking Compounds.

#### State Right to Know:

|                |                        |
|----------------|------------------------|
| New Jersey:    | 14807-96-6, 65997-17-3 |
| Pennsylvania:  | 14807-96-6, 65997-17-3 |
| Massachusetts: | 14807-96-6, 65997-17-3 |
| Rhode Island : | 14807-96-6, 65997-17-3 |

**Product Name: Minute Mend™ Epoxy Putty**

**Product Number (s): 14070, 14071, 74070**

**Canadian Regulations:**

**Controlled Products Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

WHMIS Hazard Class: D2B

**Canadian DSL Inventory:** All ingredients are either listed on the DSL Inventory or are exempt.

**European Union Regulations:**

**RoHS Compliance:** This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

---

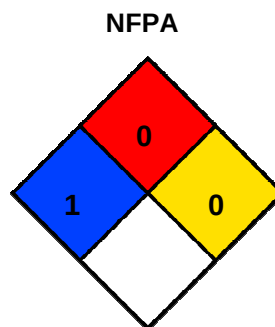
---

## Section 16: Other Information

---

---

| HMIS® (II)    |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 0 |
| Reactivity:   | 0 |
| PPE:          | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 14070  
Revision Date: 11/17/2008

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Service  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substance List  
g/L: grams per Liter  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
IMO: International Maritime Organization  
lbs./gal: pounds per gallon  
LC: Lethal Concentration  
LD: Lethal Dose

NA: Not Applicable  
ND: Not Determined  
NIOSH: National Institute of Occupational Safety & Health  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PMCC: Pensky-Martens Closed Cup  
PPE: Personal Protection Equipment  
ppm: Parts per Million  
RoHS: Restriction of Hazardous Substances  
STEL: Short Term Exposure Limit  
TCC: Tag Closed Cup  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Information System