



Revision Number: 002.1

Issue date: 02/14/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |   |                     |               |
|-------------------------------|---|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE CAT 28 RD known as<br/>CATALYST 28 RED 1LB</b> | <b>IDH number:</b>  | 1188104       |
| <b>Product type:</b>          | Epoxy Hardener  | <b>Item number:</b> | 1188104       |
| <b>Restriction of Use:</b>    | None identified   | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                               |                     |               |
| Henkel Corporation            | Telephone: +1 (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

**DANGER:** HARMFUL IF SWALLOWED.  
CAUSES SERIOUS EYE DAMAGE.

| HAZARD CLASS        | HAZARD CATEGORY |
|---------------------|-----------------|
| ACUTE TOXICITY ORAL | 4               |
| SERIOUS EYE DAMAGE  | 1               |

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye and face protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**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* |
|-----------------------------|------------|-------------|
| Diethylmethylbenzenediamine | 68479-98-1 | 90 - 100    |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                                      |
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.                   |
| <b>Symptoms:</b>     | See Section 11.   |

#### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.  |
| <b>Unusual fire or explosion hazards:</b> | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. In case of fire, keep containers cool with water spray. |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of nitrogen. Irritating vapors.  |

#### 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.   |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Store in a closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. |

#### 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling:</b> | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Refer to Section 8. |
| <b>Storage:</b>  | Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.                                       |

**For information on product shelf life, please review labels on container or check the Technical Data Sheet.**

## 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 |
|-----------------------------|-----------|----------|-----------|-------|
| Diethylmethylbenzenediamine | None      | None     | None      | None  |

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Ensure adequate ventilation.  |
| <b>Respiratory protection:</b> | Use a NIOSH approved respirator if ventilation is inadequate.   |
| <b>Eye/face protection:</b>    | 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. |
| <b>Skin protection:</b>        | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                    |
|---|--------------------|
| <b>Physical state:</b>                          | Liquid             |
| <b>Color:</b>                                   | Brown              |
| <b>Odor:</b>                                    | Amine              |
| <b>Odor threshold:</b>                          | Not available.     |
| <b>pH:</b>                                      | Not available.     |
| <b>Vapor pressure:</b>                          | < 1 mm hg None     |
| <b>Boiling point/range:</b>                     | > 300 °C (> 572°F) |
| <b>Melting point/range:</b>                     | -9 °C (15.8 °F)    |
| <b>Specific gravity:</b>                        | 1.02               |
| <b>Vapor density:</b>                           | Not available.     |
| <b>Flash point:</b>                             | 168 °C (334.4 °F)  |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.     |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.     |
| <b>Autoignition temperature:</b>                | Not available.     |
| <b>Flammability:</b>                            | Not applicable     |
| <b>Evaporation rate:</b>                        | Not available.     |
| <b>Solubility in water:</b>                     | Not available.     |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.     |
| <b>VOC content:</b>                             | 0 % (by weight)    |
| <b>Viscosity:</b>                               | Not available.     |
| <b>Decomposition temperature:</b>               | Not available.     |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.   |
| <b>Hazardous reactions:</b>              | None under normal processing.  |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.  |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Strong acids and strong bases. Strong alkalis. Isocyanates.                           |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | High temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

**Inhalation:** May cause respiratory irritation.  
**Skin contact:** May cause skin irritation. May cause allergic skin reaction.  
**Eye contact:** Causes serious eye damage.  
**Ingestion:** Harmful if swallowed.

| Hazardous Component(s)      | LD50s and LC50s | Immediate and Delayed Health Effects |
|-----------------------------|-----------------|--------------------------------------|
| Diethylmethylbenzenediamine | None            | Pancreas, Adrenals, Eyes             |

| Hazardous Component(s)      | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|-----------------------------|----------------|-----------------|---|
| Diethylmethylbenzenediamine | 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:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Diethyltoluene diamine)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethyltoluene diamine)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Diethyltoluene diamine

## 15. REGULATORY INFORMATION

### United States Regulatory Information

|   |   |
|---|---|
| <b>TSCA 8 (b) Inventory Status:</b>     | All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. |
| <b>TSCA 12 (b) Export Notification:</b> | Aromatic Diamine (CAS# 68479-98-1).   |
| <b>CERCLA/SARA Section 302 EHS:</b>     | None above reporting de minimis.  |
| <b>CERCLA/SARA Section 311/312:</b>     | Immediate Health  |
| <b>CERCLA/SARA Section 313:</b>         | None above reporting de minimis.  |
| <b>California Proposition 65:</b>       | No California Proposition 65 listed chemicals are known to be present.                              |

### Canada Regulatory Information

|                             |   |
|-----------------------------|---|
| <b>CEPA DSL/NDL Status:</b> | 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: 2, 3**

**Prepared by:** Victoria Rafferty Maloney, Regulatory Affairs Specialist

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