



Revision Number: 007.1

Issue date: 12/06/2022

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** LOCTITE EA 3985 HEAT CURE EPOXY  
**Product type/use:** Epoxy adhesive  
**Restriction of Use:** None identified  
**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 324130  
**Item number:** 34731  
**Region:** United States  
**Contact information:**  
Telephone: +1 (860) 571-5100  
MEDICAL EMERGENCY Phone: Poison Control Center  
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**

**Prevention:** Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

**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* |
|---------------------------------------------------------------|-------------|-------------|
| Epoxy resin                                                   | Proprietary | 60 - 80     |
| Calcium carbonate                                             | 471-34-1    | 10 - 30     |
| Epoxy resin                                                   | Proprietary | 1 - 5       |
| Cycloaliphatic amine                                          | Proprietary | 1 - 5       |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7  | 1 - 5       |

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

#### 4. FIRST AID MEASURES

|                      |                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.                                                                           |
| <b>Skin contact:</b> | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| <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>    | Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by medical personnel. 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> | Heating above 149°C (300°F) in the presence of air may cause slow oxidative decomposition. Heating above 260°C (500°F) may cause polymerization. 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 organic vapors. Phenolics. Aldehydes. Acids. Ammonia.                                                                                                                                                                                             |

#### 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 empty into drains / surface water / ground water.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. 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 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.                                                       |
| <b>Storage:</b>  | 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. Protect from direct sunlight. |

## 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 |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| Epoxy resin                                                   | None                                                                                               | None                                                                                                                                                                                                                              | None      | None  |
| Calcium carbonate                                             | 10 mg/m3 TWA Total dust.<br>3 mg/m3 TWA Respirable particles.<br>10 mg/m3 TWA Inhalable particles. | 5 mg/m3 PEL Respirable fraction.<br>15 mg/m3 PEL Total dust.<br>5 mg/m3 PEL Respirable fraction.<br>15 mg/m3 TWA Total dust.<br>50 MPPCF TWA Total dust.<br>15 MPPCF TWA Respirable fraction.<br>5 mg/m3 TWA Respirable fraction. | None      | None  |
| Epoxy resin                                                   | None                                                                                               | None                                                                                                                                                                                                                              | None      | None  |
| Cycloaliphatic amine                                          | None                                                                                               | None                                                                                                                                                                                                                              | None      | None  |
| Siloxanes and Silicones, di-Me, reaction products with silica | 10 mg/m3 TWA Inhalable dust.<br>3 mg/m3 TWA Respirable fraction.                                   | 15 mg/m3 TWA Total dust.<br>5 mg/m3 TWA Respirable fraction.                                                                                                                                                                      | None      | None  |
| Carbon black                                                  | 3 mg/m3 TWA Inhalable fraction.                                                                    | 3.5 mg/m3 PEL<br>5 mg/m3 TWA Respirable fraction.<br>50 MPPCF TWA Total dust.<br>15 MPPCF TWA Respirable fraction.<br>15 mg/m3 TWA Total dust.                                                                                    | None      | None  |

### Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

### 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

|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| <b>Physical state:</b>                          | Liquid                                             |
| <b>Color:</b>                                   | Black                                              |
| <b>Odor:</b>                                    | Slight, Acrid                                      |
| <b>Odor threshold:</b>                          | Not available.                                     |
| <b>pH:</b>                                      | Not applicable, Product is non-soluble (in water). |
| <b>Vapor pressure:</b>                          | < 1.1 Pa (20 °C (68°F))                            |
| <b>Boiling point/range:</b>                     | > 200 °C (> 392°F)                                 |
| <b>Melting point/ range:</b>                    | Not applicable, Product is a liquid                |
| <b>Specific gravity:</b>                        | 1.26                                               |
| <b>Vapor density:</b>                           | > 1 20 °C                                          |
| <b>Flash point:</b>                             | 249 °C (480.2 °F) Pensky Martens closed cup        |
| <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>                            | The product is not flammable.                      |
| <b>Evaporation rate:</b>                        | Less than butyl acetate.                           |
| <b>Solubility in water:</b>                     | Slight                                             |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                                     |
| <b>VOC content:</b>                             | 0 %; 0 g/l                                         |
| <b>Viscosity:</b>                               | 40,000 - 65,000 cPas                               |

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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:** Oxides of carbon. Oxides of nitrogen. Phenolics. Aldehydes. Acids. Ammonia. Irritating organic vapours.

**Incompatible materials:** Strong oxidizing agents. Strong Lewis acids. Strong mineral acids. Amines.

**Reactivity:** Not available.

**Conditions to avoid:** Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

## 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.  
**Skin contact:** Causes skin irritation. May cause allergic skin reaction.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s)                                        | LD50s and LC50s                                                                                           | Immediate and Delayed Health Effects          |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Epoxy resin                                                   | None                                                                                                      | Allergen, Irritant                            |
| Calcium carbonate                                             | Oral LD50 (Rat) = 6,450 mg/kg<br>Oral LD50 (Mouse) = 6,450 mg/kg<br>Inhalation LC50 (Rat, 4 h) = > 3 mg/l | Nuisance dust                                 |
| Epoxy resin                                                   | None                                                                                                      | Allergen, Irritant                            |
| Cycloaliphatic amine                                          | None                                                                                                      | No Data                                       |
| Siloxanes and Silicones, di-Me, reaction products with silica | None                                                                                                      | No Data                                       |
| Carbon black                                                  | Oral LD50 (Rat) = > 8,000 mg/kg                                                                           | Respiratory, Some evidence of carcinogenicity |

| Hazardous Component(s)                                        | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------------------------------------------|----------------|-----------------|------------------------------------------|
| Epoxy resin                                                   | No             | No              | No                                       |
| Calcium carbonate                                             | No             | No              | No                                       |
| Epoxy resin                                                   | No             | No              | No                                       |
| Cycloaliphatic amine                                          | No             | No              | No                                       |
| Siloxanes and Silicones, di-Me, reaction products with silica | No             | No              | No                                       |
| Carbon black                                                  | No             | Group 2B        | 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.

## 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)

|                                  |                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name:</b>     | Not regulated (Up to 5 gallons max per inner/primary package when shipped as originally packaged only) |
| <b>Hazard class or division:</b> | None                                                                                                   |
| <b>Identification number:</b>    | None                                                                                                   |
| <b>Packing group:</b>            | None                                                                                                   |

**International Air Transportation (ICAO/IATA)**

|                                  |                                                                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name:</b>     | Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin) (Up to 5 gallons max per inner/primary package when shipped as originally packaged only) |
| <b>Hazard class or division:</b> | 9                                                                                                                                                          |
| <b>Identification number:</b>    | UN 3082                                                                                                                                                    |
| <b>Packing group:</b>            | III                                                                                                                                                        |

**Water Transportation (IMO/IMDG)**

|                                  |                                                                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name:</b>     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) (Up to 5 gallons max per inner/primary package when shipped as originally packaged only) |
| <b>Hazard class or division:</b> | 9                                                                                                                                                          |
| <b>Identification number:</b>    | UN 3082                                                                                                                                                    |
| <b>Packing group:</b>            | III                                                                                                                                                        |
| <b>Marine pollutant:</b>         | Epoxy resin                                                                                                                                                |

## 15. REGULATORY INFORMATION

**United States Regulatory Information**

|                                         |                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TSCA 8 (b) Inventory Status:</b>     | All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.                                                                                    |
| <b>TSCA 12 (b) Export Notification:</b> | None above reporting de minimis                                                                                                                                                                         |
| <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>       | This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |

**Canada Regulatory Information**

|                             |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CEPA DSL/NDL Status:</b> | One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List. |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections: 9**

|                     |                                       |
|---------------------|---------------------------------------|
| <b>Prepared by:</b> | Product Safety and Regulatory Affairs |
|---------------------|---------------------------------------|

|                    |            |
|--------------------|------------|
| <b>Issue date:</b> | 12/06/2022 |
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