



Revision Number: 011.0

Issue date: 11/07/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

|  |  |                     |        |
|--|--|---------------------|--------|
| <b>Product name:</b>   | <b>LOCTITE AA 312 LOCTITE® 312 ADHESIVE</b>  | <b>IDH number:</b>  | 135398 |
| <b>Product type:</b>   | Anaerobic Adhesive   | <b>Item number:</b> | 31231  |
| <b>Restriction of Use:</b>   | None identified  | <b>Region:</b>      | Canada |
| <b>Company address:</b>  | <b>Contact information:</b><br>Telephone: +1 (905) 814-6511<br>MEDICAL EMERGENCY Phone: Poison Control Center<br>1-877-671-4608 (toll free) or 1-303-592-1711<br>TRANSPORT EMERGENCY Phone: CHEMTREC<br>1-800-424-9300 (toll free) or 1-703-527-3887<br>Internet: www.henkelna.com |                     |        |
| Henkel Canada Corporation<br>Meadowpine Boulevard 2515<br>Mississauga, Ontario L5N 6C3 |  |                     |        |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:** CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
 MAY CAUSE AN ALLERGIC SKIN REACTION.  
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| SKIN CORROSION                                     | 1B              |
| SERIOUS EYE DAMAGE                                 | 1               |
| SKIN SENSITIZATION                                 | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

### PICTOGRAM(S)



### Precautionary Statements

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.   |
| <b>Response:</b>   | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. |
| <b>Storage:</b>    | Store locked up.   |
| <b>Disposal:</b>   | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.  |

Classification complies with Canadian Hazardous Products Regulations (WHMIS 2015) and is consistent with the provision of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

IDH number: 135398

Product name: LOCTITE AA 312 LOCTITE® 312 ADHESIVE

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)          | CAS Number | Weight %* |
|---------------------------------|------------|-----------|
| Hydroxyalkyl methacrylate       | 27813-02-1 | 30 - 40   |
| Polyurethane methacrylate resin | Unknown    | 30 - 40   |
| Polyurethane methacrylate resin | Unknown    | 10 - 20   |
| Acrylic acid                    | 79-10-7    | 5 - 10    |
| Cumene hydroperoxide            | 80-15-9    | 1 - 5     |
| Polyglycol dimethacrylate       | 109-16-0   | 1 - 5     |
| Methacrylic acid                | 79-41-4    | 1 - 5     |
| Tributyl amine                  | 102-82-9   | 0.1 - 1   |
| 2-Hydroxyethyl methacrylate     | 868-77-9   | 0.1 - 1   |
| Cumene                          | 98-82-8    | 0.1 - 1   |

\* 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> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing 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>    | 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. In case of fire, keep containers cool with water spray. |
| <b>Unusual fire or explosion hazards:</b> | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.                                 |
| <b>Hazardous combustion products:</b>     | Oxides of carbon. Oxides of nitrogen. Irritating organic vapours. Isocyanates. Hydrogen cyanide. Amines.   |

### 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. |
|-----------------------------------|---|

**Clean-up methods:**

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 partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

**Handling:**

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

**Storage:**

For safe storage, store at or below 38 °C (100.4 °F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**Shelf Life Statement: Not available.**

## 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                             |
|---------------------------------|---------------------|---|---|-----------------------------------|
| Hydroxyalkyl methacrylate       | None                | None  | None  | 1 ppm TWA<br>3 ppm STEL           |
| Polyurethane methacrylate resin | None                | None  | None  | None                              |
| Polyurethane methacrylate resin | None                | None  | None  | None                              |
| Acrylic acid                    | 2 ppm TWA<br>(SKIN) | None  | None  | 1 ppm TWA<br>3 ppm STEL<br>(SKIN) |
| Cumene hydroperoxide            | None                | None  | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN) | None                              |
| Polyglycol dimethacrylate       | None                | None  | None  | None                              |
| Methacrylic acid                | 20 ppm TWA          | None  | None  | None                              |
| Tributyl amine                  | None                | None  | None  | None                              |
| 2-Hydroxyethyl methacrylate     | None                | None  | None  | 3 ppm Ceiling                     |
| Cumene                          | 50 ppm TWA          | 50 ppm (245 mg/m <sup>3</sup> ) PEL<br>(SKIN) | 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. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

Clear, Amber

**Odor:**

Sharp

**Odor threshold:**

Not available.

**pH:**

Not applicable

|   |  |
|---|--|
| <b>Vapor pressure:</b>                          | < 10 mm hg (27 °C (80.6 °F))                 |
| <b>Boiling point/range:</b>                     | > 149 °C (> 300.2 °F)                        |
| <b>Melting point/ range:</b>                    | Not available.                               |
| <b>Specific gravity:</b>                        | 1.08   |
| <b>Vapor density:</b>                           | Not available.                               |
| <b>Flash point:</b>                             | > 93.4 °C (> 200.12 °F) Tagliabue 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>                            | Not applicable                               |
| <b>Evaporation rate:</b>                        | Not available.                               |
| <b>Solubility in water:</b>                     | Slight                                       |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                               |
| <b>VOC content:</b>                             | < 3 %; 30 g/l                                |
| <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. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Oxides of nitrogen. Phenolics. Irritating organic vapours. Isocyanates. Hydrogen cyanide. Amines.          |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Strong reducing agents. Amines. Strong acids. Heavy metals. Peroxides. Free radical initiators.     |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.           |

## 11. TOXICOLOGICAL INFORMATION

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Relevant routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |
|-------------------------------------|-----------------------------------|

## Potential Health Effects/Symptoms

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause nose, throat and lung irritation. |
| <b>Skin contact:</b> | Corrosive to skin. Causes skin burns. May cause allergic skin reaction.   |
| <b>Eye contact:</b>  | Causes serious eye damage.  |
| <b>Ingestion:</b>    | May cause gastrointestinal tract irritation if swallowed.   |

| Hazardous Component(s)          | LD50s and LC50s  | Immediate and Delayed Health Effects                           |
|---------------------------------|--|--|
| Hydroxyalkyl methacrylate       | None   | Irritant, Allergen   |
| Polyurethane methacrylate resin | None   | Irritant, Allergen   |
| Polyurethane methacrylate resin | None   | Irritant, Allergen   |
| Acrylic acid                    | Oral LD50 (Rat) = 33.5 mg/kg<br>Oral LD50 (Mouse) = 2,400 mg/kg<br>Oral LD50 (Rat) = 2.5 g/kg<br>Oral LD50 (Rat) = 193 mg/kg<br>Oral LD50 (Rat) = 1,250 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 1,200 mg/l   | Allergen, Corrosive, Irritant, Kidney, Liver                   |
| Cumene hydroperoxide            | Inhalation LC50 (Mouse, 4 h) = 200 mg/l  | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| Polyglycol dimethacrylate       | None   | Irritant, Allergen   |
| Methacrylic acid                | Oral LD50 (Mouse) = 1,332 mg/kg<br>Oral LD50 (Mouse) = 1,600 mg/kg<br>Oral LD50 (Mouse) = 1,250 mg/kg<br>Oral LD50 (Rabbit) = 1,200 mg/kg<br>Oral LD50 (Rat) = 1,060 mg/kg<br>Oral LD50 (Rat) = 2,224 mg/kg<br>Dermal LD50 (Rabbit) = 500 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 7.1 mg/l | Corrosive, Irritant, Allergen                                  |
| Tributyl amine                  | None   | Allergen, Central nervous system, Corrosive, Irritant          |
| 2-Hydroxyethyl methacrylate     | Oral LD50 (Mouse) = 3,275 mg/kg<br>Oral LD50 (Rat) = 11.2 g/kg<br>Oral LD50 (Rat) = 5,050 mg/kg  | Irritant, Allergen   |
| Cumene                          | Oral LD50 (Rat) = 2.91 g/kg<br>Oral LD50 (Rat) = 1,400 mg/kg<br>Inhalation LC50 (Rat, 4 h) = 8000 ppm  | Central nervous system, Irritant, Lung                         |

| Hazardous Component(s)          | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|---------------------------------|--|-----------------|---|
| Hydroxyalkyl methacrylate       | No   | No              | No  |
| Polyurethane methacrylate resin | No   | No              | No  |
| Polyurethane methacrylate resin | No   | No              | No  |
| Acrylic acid                    | No   | No              | No  |
| Cumene hydroperoxide            | No   | No              | No  |
| Polyglycol dimethacrylate       | No   | No              | No  |
| Methacrylic acid                | No   | No              | No  |
| Tributyl amine                  | No   | No              | No  |
| 2-Hydroxyethyl methacrylate     | No   | No              | No  |
| Cumene                          | Reasonably Anticipated to be a Human Carcinogen. | 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.

#### Canada Transportation of Dangerous Goods - Ground

**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

### 15. REGULATORY INFORMATION

#### Canada Regulatory Information

**CEPA DSL/NDL Status:** 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.

#### 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.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 11/07/2017

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.