**Revision Number:** 002.0

**Issue date:** 12/06/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **LOCTITE AA H3405 400ML Part A**
**Product type:** Adhesive
**Restriction of Use:** None identified
**Company address:**
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

**IDH number:** 2625767
**Item number:** 2624611_2234063
**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 | |
|---|---|
| DANGER: | HIGHLY FLAMMABLE LIQUID AND VAPOR.<br>CAUSES SKIN IRRITATION.<br>MAY CAUSE AN ALLERGIC SKIN REACTION.<br>CAUSES SERIOUS EYE DAMAGE.<br>MAY CAUSE RESPIRATORY IRRITATION.<br>MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. |

| HAZARD CLASS | HAZARD CATEGORY |
|---|---|
| FLAMMABLE LIQUID | 2 |
| SKIN IRRITATION | 2 |
| SERIOUS EYE DAMAGE | 1 |
| SKIN SENSITIZATION | 1 |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2 |

**PICTOGRAM(S)**



**Precautionary Statements**

**Prevention:** Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

**Response:** 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. Call a POISON CENTER or physician if you feel unwell. 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. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**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* |
|---|---|---|
| Methyl methacrylate | 80-62-6 | 30 - 60 |
| Acrylate Styrene Copolymer | Unknown | 10 - 30 |
| Methacrylic acid | 79-41-4 | 5 - 10 |
| 1,3-Butadiene, homopolymer, carboxy-terminated, ester with glycidyl methacrylate | 68649-04-7 | 5 - 10 |
| Methacrylate ester | 52628-03-2 | 1 - 5 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5 |
| N,N-Dimethyl-p-toluidine | 99-97-8 | 1 - 5 |
| Triphenylphosphine | 603-35-0 | 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

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

**Skin contact:** Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

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

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Symptoms:** See Section 11.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Unusual fire or explosion hazards:** Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Acids. Alcohols. Aldehydes. Hydrogen chloride. Hydrogen cyanide. Toxic fumes. 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.**

**Environmental precautions:** Do not allow product to enter sewer or waterways.

**Clean-up methods:** Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Make sure containers are properly grounded before use or transfer of material. Keep container closed.

**Storage:** For safe storage, store between 2 °C (35.6 °F) and 8 °C (46.4 °F)
Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight. Maintain head space in storage containers to support oxygen requirements of the inhibitor(s).

## 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 |
|---|---|---|---|---|
| Methyl methacrylate | 50 ppm TWA<br>100 ppm STEL<br>(Dermal sensitization) | 100 ppm (410 mg/m3) PEL | None | 50 ppm |
| Acrylate Styrene Copolymer | None | None | None | None |
| Methacrylic acid | 20 ppm TWA | None | None | None |
| 1,3-Butadiene, homopolymer, carboxy-terminated, ester with glycidyl methacrylate | None | None | None | None |
| Methacrylate ester | None | None | None | None |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA<br>Inhalable dust.<br>3 mg/m3 TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m3 TWA | None | None |
| N,N-Dimethyl-p-toluidine | None | None | 0.5 ppm TWA | None |
| Triphenylphosphine | None | None | None | None |

**Engineering controls:** Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established 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.

| | |
|---|---|
| **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

| | |
|---|---|
| **Physical state:** | Paste |
| **Color:** | Amber |
| **Odor:** | Acrylic |
| **Odor threshold:** | Not available. |
| **pH:** | Not available. |
| **Vapor pressure:** | Not available. |
| **Boiling point/range:** | Not available. |
| **Melting point/ range:** | Not available. |
| **Specific gravity:** | 0.9706 |
| **Vapor density:** | Not available. |
| **Flash point:** | 11 °C (51.8 °F) Closed cup |
| **Flammable/Explosive limits - lower:** | Not available. |
| **Flammable/Explosive limits - upper:** | Not available. |
| **Autoignition temperature:** | Not available. |
| **Flammability:** | Not applicable |
| **Evaporation rate:** | Not available. |
| **Solubility in water:** | Not available. |
| **Partition coefficient (n-octanol/water):** | Not available. |
| **VOC content:** | 4.02 % Method 40 CFR Part 63 Appendix A to Subpart PPPP |
| **Viscosity:** | Not available. |
| **Decomposition temperature:** | Not available. |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability:** | Stable under normal conditions of storage and use. |
| **Hazardous reactions:** | Polymerization may occur at elevated temperatures or upon depletion of inhibitor. |
| **Hazardous decomposition products:** | Oxides of carbon. Oxides of nitrogen. Acids. Alcohols. Aldehydes. Hydrogen chloride. Hydrogen cyanide. Toxic fumes. Irritating vapors. |
| **Incompatible materials:** | Bases. Acids. Reducing agents. Oxidizing agents. Nitrates. Amines. Peroxides. Halogens. Metal salts. |
| **Reactivity:** | Not available. |
| **Conditions to avoid:** | Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Loss of polymerization inhibitor. Loss of dissolved air. Do not mix in batches greater than 100 grams (0.22 pounds) unless you plan to use immediately. |

## 11. TOXICOLOGICAL INFORMATION

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

**Potential Health Effects/Symptoms**

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

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|---|
| Methyl methacrylate | Oral LD50 (Rat) = 7,800 mg/kg<br>Oral LD50 (Rabbit) = 6,000 mg/kg<br>Oral LD50 (Rat) = 9,400 mg/kg | Allergen, Irritant, Kidney, Liver, Mutagen, Nervous System, Respiratory |
| Acrylate Styrene Copolymer | None | No Data |
| 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 |
| 1,3-Butadiene, homopolymer, carboxy-terminated, ester with glycidyl methacrylate | None | Irritant, Allergen |
| Methacrylate ester | None | Irritant, Allergen |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust |
| N,N-Dimethyl-p-toluidine | None | Mutagen, Allergen |
| Triphenylphosphine | None | Irritant, Nervous System, Mutagen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Methyl methacrylate | No | No | No |
| Acrylate Styrene Copolymer | No | No | No |
| Methacrylic acid | No | No | No |
| 1,3-Butadiene, homopolymer, carboxy-terminated, ester with glycidyl methacrylate | No | No | No |
| Methacrylate ester | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| N,N-Dimethyl-p-toluidine | No | Group 2B | No |
| Triphenylphosphine | 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:** D001: Ignitable.

## 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:** Adhesives
**Hazard class or division:** 3
**Identification number:** UN 1133
**Packing group:** II
**DOT Hazardous Substance(s):** Methyl methacrylate

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

**Proper shipping name:** Adhesives
**Hazard class or division:** 3
**Identification number:** UN 1133
**Packing group:** II

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** ADHESIVES
**Hazard class or division:** 3
**Identification number:** UN 1133
**Packing group:** II

## 15. REGULATORY INFORMATION

**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.
**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.
**CERCLA/SARA Section 311/312:** Fire, Immediate Health, Delayed Health
**CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methyl methacrylate (CAS# 80-62-6).
**CERCLA Reportable quantity:** Methyl methacrylate (CAS# 80-62-6) 1,000 lbs. (454 kg)

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** 2,3

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

**Issue date:** 12/06/2017

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