


**Revision Number:** 002.6

**Issue date:** 08/07/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                            |   |                             |   |
|----------------------------|---|-----------------------------|---|
| <b>Product name:</b>       | LOCTITE EA 9394C-2 AERO PART B<br>GAL known as EA 9394/C-2 PART B<br>GALLON | <b>IDH number:</b>          | 937152  |
| <b>Product type:</b>       | Adhesive for the Aerospace Industry Part B of 2-Component Epoxy Adhesive.   | <b>Item number:</b>         | AB9319018   |
| <b>Restriction of Use:</b> | None identified   | <b>Region:</b>              | United States   |
| <b>Company address:</b>    | Henkel Corporation<br>One Henkel Way<br>Rocky Hill, Connecticut 06067       | <b>Contact information:</b> | Telephone: +1 (860) 571-5100<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 |

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

|                |   |
|----------------|---|
| <b>DANGER:</b> | HARMFUL IF SWALLOWED.<br>TOXIC IN CONTACT WITH SKIN.<br>CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.<br>MAY CAUSE AN ALLERGIC SKIN REACTION.<br>FATAL IF INHALED.<br>MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. |
|----------------|---|

| HAZARD CLASS                                       | HAZARD CATEGORY |
|--|-----------------|
| ACUTE TOXICITY ORAL                                | 4               |
| ACUTE TOXICITY INHALATION                          | 2               |
| ACUTE TOXICITY DERMAL                              | 3               |
| SKIN CORROSION                                     | 1A              |
| SERIOUS EYE DAMAGE                                 | 1               |
| SKIN SENSITIZATION                                 | 1               |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 2               |

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:**

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. [In case of inadequate ventilation] wear respiratory protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Take off contaminated clothing.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. 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* |
|--|------------|-------------|
| 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) | 6864-37-5  | 40 - 50     |
| 4,4'-Methylenebis(cyclohexylamine)               | 1761-71-3  | 30 - 40     |
| Diaminocyclohexane, 1,2-                         | 694-83-7   | 10 - 20     |

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

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention.

**Skin contact:** Remove contaminated clothing and footwear. Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.

**Eye contact:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

**Ingestion:** Get immediate medical attention. Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Symptoms:** See Section 11.

**Notes to physician:** Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear full protective clothing. Wear self-contained breathing apparatus.

**Unusual fire or explosion hazards:** May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.

**Hazardous combustion products:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.

## 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:**

Prevent further leakage or spillage if safe to do so. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

**Clean-up methods:**

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

## 7. HANDLING AND STORAGE

**Handling:**

For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, grind, weld, or drill on or near this container.

**Storage:**

For safe storage, store at or below 25 °C (77°F). Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

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 |
|--|-----------|----------|-----------|-------|
| 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) | None      | None     | None      | None  |
| 4,4'-Methylenebis(cyclohexylamine)               | None      | None     | None      | None  |
| Diaminocyclohexane, 1,2-                         | None      | None     | None      | None  |

**Engineering controls:**

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination. Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**Respiratory protection:**

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye/face protection:**

Wear chemical goggles; face shield (if splashing is possible).

**Skin protection:**

Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

Purple

**Odor:**

Ammonia

**Odor threshold:**

Not available.

**pH:**

Alkaline

|   |   |
|---|---|
| <b>Vapor pressure:</b>                          | Negligible  |
| <b>Boiling point/range:</b>                     | > 93 °C (> 199.4 °F)1,013 hPa   |
| <b>Melting point/ range:</b>                    | Not determined  |
| <b>Specific gravity:</b>                        | 1   |
| <b>Vapor density:</b>                           | Not determined  |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F) ; Estimated                                      |
| <b>Flammable/Explosive limits - lower:</b>      | Not determined  |
| <b>Flammable/Explosive limits - upper:</b>      | Not determined  |
| <b>Autoignition temperature:</b>                | Not applicable  |
| <b>Flammability:</b>                            | Not applicable  |
| <b>Evaporation rate:</b>                        | Not determined  |
| <b>Solubility in water:</b>                     | Negligible  |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined  |
| <b>VOC content:</b>                             | < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) |
| <b>Viscosity:</b>                               | Not available.  |
| <b>Decomposition temperature:</b>               | Not available.  |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions.   |
| <b>Hazardous reactions:</b>              | May occur.   |
| <b>Hazardous decomposition products:</b> | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of nitrogen.   |
| <b>Incompatible materials:</b>           | Keep away from strong oxidizing agents, strong Lewis or mineral acids.   |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Do not heat mixed adhesive unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. |

## 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. This product is harmful or fatal by inhalation. |
| <b>Skin contact:</b> | This product is severely irritating to the skin and may cause burns. May cause allergic skin reaction. Toxic in contact with skin.        |
| <b>Eye contact:</b>  | This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.                          |
| <b>Ingestion:</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.                              |

| Hazardous Component(s)                           | LD50s and LC50s | Immediate and Delayed Health Effects                  |
|--|-----------------|---|
| 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) | None            | Brain, Corrosive, Irritant, Liver, Lung, Muscle, Skin |
| 4,4'-Methylenebis(cyclohexylamine)               | None            | Irritant, Allergen                                    |
| Diaminocyclohexane, 1,2-                         | None            | Irritant  |

| Hazardous Component(s)                           | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| 2,2'-Dimethyl-4,4'-methylenebis(cyclohexylamine) | No             | No              | No                                       |
| 4,4'-Methylenebis(cyclohexylamine)               | No             | No              | No                                       |
| Diaminocyclohexane, 1,2-                         | No             | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Harmful to aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

**Hazardous waste number:** This product, if discarded, may be characterized as a RCRA corrosive waste, D002. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 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:** Corrosive liquids, toxic, n.o.s. (2,2-Dimethyl-4,4-methylenebis-cyclohexylamine, 4,4-methylenebis-cyclohexylamine)  
**Hazard class or division:** 8 (6.1)  
**Identification number:** UN 2922  
**Packing group:** II

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Corrosive liquid, toxic, n.o.s. (2,2-Dimethyl-4,4-methylenebis-cyclohexylamine, 4,4-methylenebis-cyclohexylamine)  
**Hazard class or division:** 8 (6.1)  
**Identification number:** UN 2922  
**Packing group:** II

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S. (2,2-Dimethyl-4,4-methylenebis-cyclohexylamine, 4,4-methylenebis-cyclohexylamine)  
**Hazard class or division:** 8 (6.1)  
**Identification number:** UN 2922  
**Packing group:** II  
**Marine pollutant:** 2,2-Dimethyl-4,4-methylenebis-cyclohexylamine, 4,4-methylenebis-cyclohexylamine

**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:** Immediate Health, Delayed Health  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** 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:** New Safety Data Sheet format.

**Prepared by:** Regulatory Affairs

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