



Revision Number: 002.1

Issue date: 12/31/2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | LOCTITE EA 9394S AERO PART B<br>6OZ            | <b>IDH number:</b>  | 937120        |
| <b>Product type:</b>          | Adhesive for the Aerospace Industry            | <b>Item number:</b> | AB9297313     |
| <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 IN CONTACT WITH SKIN.  
 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
 MAY CAUSE AN ALLERGIC SKIN REACTION.

| HAZARD CLASS          | HAZARD CATEGORY |
|-----------------------|-----------------|
| ACUTE TOXICITY DERMAL | 4               |
| SKIN CORROSION        | 1C              |
| SERIOUS EYE DAMAGE    | 1               |
| SKIN SENSITIZATION    | 1               |

### PICTOGRAM(S)



### Precautionary Statements

|                    |  |
|--------------------|--|
| <b>Prevention:</b> | 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, 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. 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 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* |
|--|-------------|-------------|
| Tetraethylene pentamine                | 112-57-2    | 40 - 50     |
| N,N'-Bis(3-aminopropyl)piperazine      | 7209-38-3   | 30 - 40     |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5       |
| Triethylenetetramine                   | 112-24-3    | 1 - 5       |
| Carbon black                           | 1333-86-4   | 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>         | If inhaled, immediately remove the affected person to fresh air. Get medical attention. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep warm and quiet. |
| <b>Skin contact:</b>       | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention.                                  |
| <b>Eye contact:</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.  |
| <b>Ingestion:</b>          | Get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.   |
| <b>Symptoms:</b>           | See Section 11.   |
| <b>Notes to physician:</b> | Treat symptomatically and supportively.   |

### 5. FIRE FIGHTING MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | 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. |
| <b>Clean-up methods:</b>          | 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:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. For industrial use only.

**Storage:** 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 |
|--|--|---|---|-------|
| Tetraethylene pentamine                | None   | None                                      | (SKIN) Aerosol.<br>1 ppm (5 mg/m <sup>3</sup> )<br>TWA Aerosol. (Skin sensitizer) | None  |
| N,N'-Bis(3-aminopropyl)piperazine      | None   | None                                      | None  | None  |
| Silica, amorphous, fumed, crystal-free | 10 mg/m <sup>3</sup> TWA<br>Inhalable dust.<br>3 mg/m <sup>3</sup> TWA<br>Respirable fraction. | 20 MPPCF TWA<br>0.8 mg/m <sup>3</sup> TWA | None  | None  |
| Triethylenetetramine                   | None   | None                                      | 1 ppm (6 mg/m <sup>3</sup> )<br>TWA<br>(SKIN)                                     | None  |
| Carbon black                           | 3 mg/m <sup>3</sup> TWA<br>Inhalable fraction.   | 3.5 mg/m <sup>3</sup> PEL                 | None  | None  |

**Engineering controls:** 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:** Safety goggles or safety glasses with side shields.

**Skin protection:** Wear impervious gloves for prolonged contact. Use of impervious apron and boots are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                             |
|---|-----------------------------|
| <b>Physical state:</b>                          | Gel                         |
| <b>Color:</b>                                   | Black                       |
| <b>Odor:</b>                                    | Ammoniacal                  |
| <b>Odor threshold:</b>                          | Not available.              |
| <b>pH:</b>                                      | Not applicable              |
| <b>Vapor pressure:</b>                          | < 0.1 mm hg (20 °C (68°F))  |
| <b>Boiling point/range:</b>                     | 340 °C (644°F)              |
| <b>Melting point/ range:</b>                    | Not determined              |
| <b>Specific gravity:</b>                        | 1.0                         |
| <b>Vapor density:</b>                           | 8.6                         |
| <b>Flash point:</b>                             | > 93 °C (> 199.4 °F)        |
| <b>Flammable/Explosive limits - lower:</b>      | Not determined              |
| <b>Flammable/Explosive limits - upper:</b>      | Not determined              |
| <b>Autoignition temperature:</b>                | Not determined              |
| <b>Flammability:</b>                            | Not applicable              |
| <b>Evaporation rate:</b>                        | Not determined              |
| <b>Solubility in water:</b>                     | Completely soluble          |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined              |
| <b>VOC content:</b>                             | < 10 g/l (SCAQMD Rule 1124) |

Viscosity: Not available.  
Decomposition temperature: Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Hazardous reactions:** May occur.

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

**Incompatible materials:** Keep away from strong oxidizing agents, strong Lewis or mineral acids.

**Reactivity:** Not available.

**Conditions to avoid:** Do not heat mixed adhesive unless curing surfaces to be bonded. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

## 11. TOXICOLOGICAL INFORMATION

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

### Potential Health Effects/Symptoms

**Inhalation:** May cause allergic respiratory reaction. Mists, vapors or liquid may cause severe irritation or burns.

**Skin contact:** This product is severely irritating to the skin and may cause burns. May cause allergic skin reaction.

**Eye contact:** This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. May cause corneal injury.

**Ingestion:** May cause burns of mouth and throat if swallowed. May cause an aspiration hazard if swallowed.

| Hazardous Component(s)                 | LD50s and LC50s   | Immediate and Delayed Health Effects                  |
|--|---|---|
| Tetraethylene pentamine                | Oral LD50 (Rat) = 3.99 g/kg<br>Oral LD50 (Rat) = 2.1 g/kg<br>Dermal LD50 (Rabbit) = 0.66 g/kg | Irritant, Mutagen, Allergen                           |
| N,N'-Bis(3-aminopropyl)piperazine      | None  | No Records  |
| Silica, amorphous, fumed, crystal-free | None  | Nuisance dust   |
| Triethylenetetramine                   | None  | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| 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) |
|--|----------------|-----------------|--|
| Tetraethylene pentamine                | No             | No              | No                                       |
| N,N'-Bis(3-aminopropyl)piperazine      | No             | No              | No                                       |
| Silica, amorphous, fumed, crystal-free | No             | No              | No                                       |
| Triethylenetetramine                   | 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:** 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:** Amines, liquid, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine)  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. (Tetraethylene pentamine, Substituted piperazine)  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III

### Water Transportation (IMO/IMDG)

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted piperazine)  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III  
**Marine pollutant:** Tetraethylene pentamine

## 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 Material Safety Data Sheet format.

**Prepared by:** Mark Mau, Regulatory Affairs Specialist

**Issue date:** 12/31/2016

**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.