



Revision Number: 002.2

Issue date: 08/09/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 9396 AERO PART B
2.5OZ KIT known as EA 9396 PART B
2.5OZ SEMK IT

IDH number: 937072

Product type: Adhesive for the Aerospace Industry

Item number: AB9280302
Region: United States

Company address:
Henkel Corporation
2850 Willow Pass Road
Bay Point, California 94565

Contact information:
Telephone: 925.458.8000 Fax: 925.458.8030
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

| | | | |
|------------------------|------------|-----------------------------|--------------------|
| Physical state: | Liquid | HMIS: | |
| Color: | Orange-red | HEALTH: | *3 |
| Odor: | Ammoniacal | FLAMMABILITY: | 1 |
| | | PHYSICAL HAZARD: | 1 |
| | | Personal Protection: | See MSDS Section 8 |

DANGER-CORROSIVE!: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

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

Potential Health Effects

Inhalation: 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. May be harmful if absorbed through skin.

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.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|--|-------------|---------|
| Tetraethylene pentamine | 112-57-2 | 30 - 60 |
| Substituted piperazine | Proprietary | 30 - 60 |
| Polyamine | Proprietary | 5 - 10 |
| 3,6,9,12-tetraazatetradecamethylenediamine | 4067-16-7 | 5 - 10 |
| Triethylenetetramine | 112-24-3 | 1 - 5 |
| 1,2-Dichloroethane, polymer with ammonia | 29320-38-5 | 1 - 5 |

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4. FIRST AID MEASURES

| | |
|----------------------------|---|
| Inhalation: | If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. |
| 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: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. |
| Ingestion: | Get immediate medical attention. Do not induce vomiting. |
| Notes to physician: | Treat symptomatically and supportively. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flash point: | > 93 °C (> 199.4 °F) ; Estimated |
| Autoignition temperature: | Not determined |
| Flammable/Explosive limits - lower: | Not determined |
| Flammable/Explosive limits - upper: | Not determined |
| 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: | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |
| 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: | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after 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:

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 components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|--|-----------|----------|--|-------|
| Tetraethylene pentamine | None | None | (SKIN) Aerosol. 1 ppm (5 mg/m ³) TWA Aerosol. (Skin sensitizer) | None |
| Substituted piperazine | None | None | None | None |
| Polyamine | None | None | None | None |
| 3,6,9,12-tetraazatetradecamethylenediamine | None | None | None | None |
| Triethylenetetramine | None | None | 1 ppm (6 mg/m ³) TWA (SKIN) | None |
| 1,2-Dichloroethane, polymer with ammonia | None | None | 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

| | |
|---|---|
| Physical state: | Liquid |
| Color: | Orange-red |
| Odor: | Ammoniacal |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | < 0.1 mm hg (20 °C (68°F)) |
| Boiling point/range: | 340 °C (644°F) |
| Melting point/ range: | Not determined |
| Specific gravity: | 1.0 |
| Vapor density: | 8.6 |
| Flash point: | > 93 °C (> 199.4 °F) ; Estimated |
| Flammable/Explosive limits - lower: | Not determined |
| Flammable/Explosive limits - upper: | Not determined |
| Autoignition temperature: | Not determined |
| Evaporation rate: | Not determined |
| Solubility in water: | fully soluble |
| Partition coefficient (n-octanol/water): | Not determined |
| VOC content: | < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated) |

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

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Henkel is not aware of any toxicity data on the specific mixture of chemical components contained in this product.

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Tetraethylene pentamine | No | No | No |
| Substituted piperazine | No | No | No |
| Polyamine | No | No | No |
| 3,6,9,12-tetraazatetradecamethylenediamine | No | No | No |
| Triethylenetetramine | No | No | No |
| 1,2-Dichloroethane, polymer with ammonia | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|--|---|
| Tetraethylene pentamine | Irritant, Mutagen, Allergen |
| Substituted piperazine | No Records |
| Polyamine | No Target Organs |
| 3,6,9,12-tetraazatetradecamethylenediamine | Irritant, Allergen |
| Triethylenetetramine | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| 1,2-Dichloroethane, polymer with ammonia | No Target Organs |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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|--|--|
| Recommended method of disposal: | Dispose of according to Federal, State and local governmental regulations. |
| Hazardous waste number: | Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. |

14. TRANSPORT INFORMATION

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 313: None above reporting de minimis
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: This Material Safety Data Sheet contains changes from the previous version in Section(s): 1,2,6,10

Prepared by: Mark Mau, Regulatory Affairs Specialist

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