1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 934NA AERO PART B 4OZ known as EA 934NA PART B 4 OZ
IDH number: 936943
Product type: Adhesive for the Aerospace Industry
Restriction of Use: None identified
Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

HAZARD CLASS

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CORROSION</td>
<td>1B</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE</td>
<td>1</td>
</tr>
<tr>
<td>RESPIRATORY SENSITIZATION</td>
<td>1</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
<td>1</td>
</tr>
</tbody>
</table>

PICTOGRAM(S)

Precautionary Statements

Prevention: 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. In case of inadequate ventilation wear respiratory protection.

Response: 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. If experiencing respiratory symptoms: Call a poison center or physician. Wash contaminated clothing before reuse.

Storage: Store locked up.
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>CAS Number</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer</td>
<td>68082-29-1</td>
<td>60 - 100</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>111-40-0</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>112-24-3</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

* 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:**
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. 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.

### 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 between 0 °C (32°F) and 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.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>(SKIN) 1 ppm TWA</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>None</td>
<td>None</td>
<td>1 ppm (6 mg/m3) TWA (SKIN)</td>
<td>None</td>
</tr>
</tbody>
</table>

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: 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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor:</td>
<td>ammoniacal</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>&lt; 1.0 mm hg (20 °C (68°F))</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>207 °C (404.6 °F)</td>
</tr>
<tr>
<td>Melting point/range:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>0.96</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 93 °C (&gt; 199.4 °F)</td>
</tr>
<tr>
<td>Flammable/Explosive limits - lower:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable/Explosive limits - upper:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Soluble</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined</td>
</tr>
<tr>
<td>VOC content:</td>
<td>&lt; 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
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:** 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.

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

**Potential Health Effects/Symptoms**

- **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. This product may cause an allergic skin reaction.
- **Eye contact:** This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
- **Ingestion:** Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

### Hazardous Component(s)

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer</td>
<td>None</td>
<td>No Records</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>Oral LD50 (Rat) = 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg</td>
<td>Allergen, Irritant, Eyes</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>None</td>
<td>Allergen, Corrosive, Developmental, Irritant, Mutagen</td>
</tr>
</tbody>
</table>

### Hazardous Component(s)

<table>
<thead>
<tr>
<th>Compound</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

## 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: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

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. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division: 8

Identification number: UN 2735

Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine, Triethylenetetramine)

Hazard class or division: 8

Identification number: UN 2735

Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine, Triethylenetetramine, C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer)

Hazard class or division: 8

Identification number: UN 2735

Packing group: II

Marine pollutant: C18 Fatty acid dimer, tall oil fatty acid, triethylenetetramine polymer

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: 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.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Regulatory Affairs

Issue date: 04/10/2018
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