1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Shoe Glue
Product type: Contact adhesive
Restriction of Use: None identified
Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

IDH number: 2320563

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

WARNING: COMBUSTIBLE LIQUID.
CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABLE LIQUID</td>
<td>4</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>2</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>2A</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
<td>1</td>
</tr>
</tbody>
</table>

PICTOGRAM(S)

Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. 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, eye protection, and face protection.

Response: IF ON SKIN: Wash with plenty of water. 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 eye irritation persists: 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 cool.

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>Silica, amorphous, fumed, crystal-free</td>
<td>112945-52-5</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>2768-02-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethylenediamine</td>
<td>1760-24-3</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate</td>
<td>52829-07-9</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>1,8-Diazabicyclo[5.4.0]undec-7-ene</td>
<td>6674-22-2</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Ethyltrimethoxysilane</td>
<td>5314-55-6</td>
<td>0.1 - 1</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: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wash with soap and water. Obtain medical attention if irritation persists.

Eye contact: Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

Ingestion: If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

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

Special firefighting procedures: Wear protective equipment. Wear self contained breathing apparatus.

Unusual fire or explosion hazards: None


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: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal.
7. HANDLING AND STORAGE

Handling: Do not handle or store near an open flame, heat or other sources of ignition. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. Use only in well-ventilated areas. Wear suitable protective clothing, safety glasses and gloves. Keep out of the reach of children.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Provide adequate ventilation.

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
--- | --- | --- | --- | ---
Silica, amorphous, fumed, crystal-free | 10 mg/m³ TWA Inhalable dust. 3 mg/m³ TWA Respirable fraction. | 20 MPPCF TWA 0.8 mg/m³ TWA | None | None
Trimethoxyvinylsilane | None | None | None | None
N-(3-(Trimethoxysilyl)propyl)ethylenediamine | None | None | None | None
Bis(2,2,6,6-tetramethyl-4-piperidyld) sebacate | None | None | None | None
1,8-Diazabicyclo[5.4.0]undec-7-ene | None | None | None | None
Methanol | 200 ppm TWA (SKIN) 250 ppm STEL | 200 ppm (260 mg/m³) PEL | None | None
Ethyltrimethoxysilane | None | None | None | None

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

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapor/particulate.

Eye/face protection: Wear safety glasses with side shields. Do not wear contact lenses.

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: high viscosity, liquid
Color: Colorless, clear
Odor: Odorless
Odor threshold: Not available.
pH: Not applicable
Vapor density: Not available.
Flash point: 68 - 72 °C (154.4 - 161.6 °F)
Flammable/Explosive limits - lower: 1.4 %
Flammable/Explosive limits - upper: 50 %
Autoignition temperature: Not applicable
Flammability: Not applicable
Evaporation rate: Not determined
Solubility in water: Not available.
Partition coefficient (n-octanol/water): Not determined
**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of storage and use.

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** Oxides of carbon. Methanol is liberated slowly upon exposure to moisture.

**Incompatible materials:** None if used for intended purpose.

**Reactivity:** Not available.

**Conditions to avoid:** Direct sources of heat. Do not freeze. Humidity.

**11. TOXICOLOGICAL INFORMATION**

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

**Potential Health Effects/Symptoms**

- **Inhalation:** May be harmful if inhaled. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea.
- **Skin contact:** Repeated or prolonged skin contact may result in allergic sensitization. Persons with previous allergic reactions to amines should avoid contact with product.
- **Eye contact:** Contact with uncured product may irritate the eyes. Vapors may also produce eye irritation.
- **Ingestion:** May be harmful if swallowed.

**Hazardous Component(s)**

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td>None</td>
<td>Nuisance dust</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethylenediamine</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate</td>
<td>None</td>
<td>No Data</td>
</tr>
<tr>
<td>1,8-Diazabicyclo[5.4.0]undec-7-ene</td>
<td>None</td>
<td>No Target Organs</td>
</tr>
<tr>
<td>Methanol</td>
<td>Oral LD50 (Rat) = 5,628 mg/kg</td>
<td>Eyes, Irritant, Metabolic, Nervous System</td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (Mouse) = 7,300 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oral LD50 (Rabbit) = 14.4 g/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal LD50 (Rabbit) = 15,800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Ethyltrimethoxysilane</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
</tbody>
</table>

**Hazardous Component(s)**

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, amorphous, fumed, crystal-free</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethylenediamine</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1,8-Diazabicyclo[5.4.0]undec-7-ene</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Methanol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ethyltrimethoxysilane</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: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

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: Combustible liquid, n.o.s. (Vinyltrimethoxysilane)
- Hazard class or division: Combustible Liquid
- Identification number: NA 1993
- Packing group: III

International Air Transportation (ICAO/IATA)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

Water Transportation (IMO/IMDG)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

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: Not available.
- CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire
- CERCLA/SARA Section 313: Not available.
- California Proposition 65: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
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: This Safety Data Sheet contains changes from the previous version in Section(s): 2,3,8,11,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 06/21/2018

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