1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite High Performance Spray Adhesive

IDH number: 2235317

Product type: Adhesive

Restriction of Use: None identified

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Region: United States

Contact information:
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
DANGER: CONTENTS UNDER PRESSURE. EXTREMELY FLAMMABLE AEROSOL. CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS | HAZARD CATEGORY
--- | ---
FLAMMABLE AEROSOL. | 1
SKIN IRRITATION | 2
EYE IRRITATION | 2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3
GASES UNDER PRESSURE | Compr. Gas

PICTOGRAM(S)

Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
5% of the mixture consists of ingredient(s) of unknown acute toxicity.


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>Methyl acetate</td>
<td>79-20-9</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>115-10-6</td>
<td>10 - 20</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>75-37-6</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>428260-76-6</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Naphtha, hydrotreated light, &lt;0,1% benzene</td>
<td>64742-49-0</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph., &lt;0.1% benzene</td>
<td>64742-89-8</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>0.1 - 0.5</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>75-07-0</td>
<td>0 - 0.1</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>0 - 0.1</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>0 - 0.1</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:**
If inhaled, immediately remove the affected person to fresh air. In case of adverse health effects seek medical advice.

**Skin contact:**
Wash affected area immediately with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.

**Eye contact:**
In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

**Ingestion:**
If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

**Symptoms:**
See Section 11.

**Notes to physician:**
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:**
Carbon dioxide. Alcohol-resistant foam. Dry powder.

**Special firefighting procedures:**
Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
Unusual fire or explosion hazards: Contents under pressure. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture or incinerate pressurized containers. Exposure to temperatures above 49°C (120°F) may cause container to burst.

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

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal. Follow all local, state, federal and provincial regulations for disposal.

7. HANDLING AND STORAGE

Handling: Keep out of the reach of children. Keep in a cool, well ventilated area. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains. Do not puncture or incinerate pressurized containers.

Storage: For safe storage, store at or below 50 °C (122°F) Keep away from heat, spark and flame. Store in a cool, dry, well-ventilated area.
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>Methyl acetate</td>
<td>200 ppm TWA 250 ppm STEL</td>
<td>200 ppm (610 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Acetone</td>
<td>250 ppm TWA 500 ppm STEL</td>
<td>1,000 ppm (2,400 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>None</td>
<td>None</td>
<td>1,000 ppm (1,880 mg/m3) TWA</td>
<td>None</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>None</td>
<td>None</td>
<td>1,000 ppm (2,700 mg/m3) TWA</td>
<td>None</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>400 ppm TWA 500 ppm STEL</td>
<td>500 ppm (2,000 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Naphtha, hydrotreated light, &lt;0,1% benzene</td>
<td>None</td>
<td>100 ppm (400 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Propane</td>
<td>Included in the regulation but with no data values. See regulation for further details</td>
<td>1,000 ppm (1,800 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph., &lt;0.1% benzene</td>
<td>None</td>
<td>100 ppm (400 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>100 ppm TWA</td>
<td>300 ppm (1,050 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>25 ppm Ceiling</td>
<td>200 ppm (360 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>10 ppm TWA (SKIN)</td>
<td>10 ppm (50 mg/m3) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Methanol</td>
<td>200 ppm TWA (SKIN) 250 ppm STEL</td>
<td>200 ppm (260 mg/m3) PEL</td>
<td>None</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:**
Safety goggles or safety glasses with side shields.

**Skin protection:**
Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Aerosol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odor:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>52 °C (125.6 °F)</td>
</tr>
<tr>
<td>Melting point/ range:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-104.4 °C (-155.92 °F)</td>
</tr>
<tr>
<td>Flammable/Explosive limits - lower:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable/Explosive limits - upper:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Solubility in water: Not available.
Partition coefficient (n-octanol/water): Not available.
VOC content: 28.1 % (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)
Viscosity: Not available.
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Not available.
Hazardous reactions: Will not occur.
Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Incompatible materials: Strong oxidizing agents.
Reactivity: Not available.
Conditions to avoid: Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes
### Potential Health Effects/Symptoms

**Inhalation:** May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Skin contact:** Prolonged and/or repeated skin contact may result in mild irritation or redness. Repeated or prolonged contact can result in drying of skin. Symptoms may include redness, burning, drying, cracking and skin burns.

**Eye contact:** Symptoms can include irritation, redness, scratching of the cornea, and tearing. Mild eye irritation.

**Ingestion:** May be harmful if swallowed. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

### Hazardous Component(s)

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl acetate</td>
<td>Oral LD50 (Rabbit) = 3.7 g/kg</td>
<td>Blood, Central nervous system, Eyes, Irritant</td>
</tr>
<tr>
<td>Acetone</td>
<td>Oral LD50 (Mouse) = 5.2 g/kg, Oral LD50 (Mouse) = 3,000 mg/kg, Oral LD50 (Rat) = 5,800 mg/kg, Oral LD50 (Rat) = 9,800 mg/kg, Dermal LD50 (Rabbit) = 20,000 mg/kg, Inhalation LC50 (Rat, 4 h) = 76 mg/l</td>
<td>Central nervous system, Irritant</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>Inhalation LC50 (Rat, 4 h) = 308.5 mg/l, Inhalation LC50 (Rat, 4 h) = 164000 ppm</td>
<td>Irritant, Central nervous system</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>None</td>
<td>Cardiac, Central nervous system, Developmental, Irritant, Respiratory</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>None</td>
<td>Irritant, Central nervous system</td>
</tr>
<tr>
<td>Naphtha, hydrotreated light, &lt;0,1% benzene</td>
<td>None</td>
<td>Central nervous system, Irritant, Kidney, Lung</td>
</tr>
<tr>
<td>Propane</td>
<td>None</td>
<td>Cardiac, Central nervous system, Irritant</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph., &lt;0.1% benzene</td>
<td>None</td>
<td>No Data</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>Oral LD50 (Rat) = 29,820 mg/kg, Oral LD50 (Mouse) = 1,300 mg/kg</td>
<td>Irritant, Central nervous system</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>Oral LD50 (Mouse) = 1,230 mg/kg, Oral LD50 (Rat) = 1,930 mg/kg, Oral LD50 (Rat) = 1,930 mg/kg, Oral LD50 (Rat) = 1,930 mg/kg, Oral LD50 (Rat) = 1,300 mg/kg, Dermal LD50 (Rabbit) = 3,540 mg/kg, Dermal LD50 (Rabbit) = 3,540 mg/kg, Inhalation LC50 (Rat, 4 h) = 24 mg/l, Inhalation LC50 (Mouse, 4 h) = 1500 ppm</td>
<td>Allergen, Central nervous system, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity, Less weight gain and food intake</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Oral LD50 (Rat) = 490 mg/kg, Oral LD50 (Rat) = 2.6 g/kg, Oral LD50 (Rat) = 2,200 mg/kg, Oral LD50 (Rat) = 2,400 mg/kg, Oral LD50 (Rat) = 490 mg/kg, Oral LD50 (Rat) = 490 mg/kg</td>
<td>Blood, Central nervous system, Eyes, Irritant</td>
</tr>
<tr>
<td>Methanol</td>
<td>Oral LD50 (Rat) = 5,628 mg/kg, Oral LD50 (Mouse) = 7,300 mg/kg, Oral LD50 (Rabbit) = 14.4 g/kg, Dermal LD50 (Rabbit) = 15,800 mg/kg, Inhalation LC50 (Rat, 4 h) = 64000 ppm</td>
<td>Eyes, Irritant, Metabolic, Nervous System</td>
</tr>
</tbody>
</table>

### Hazardous Component(s)

<table>
<thead>
<tr>
<th>Component</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl acetate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Acetone</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Naphtha, hydrotreated light, &lt;0,1%</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
benzene

Propane
No
No
No

Solvent naphtha (petroleum), light aliph., <0.1% benzene
No
No
No

Cyclohexane
No
No
No

Acetaldehyde
Reasonably Anticipated to be a Human Carcinogen.
Group 2B
No

Naphthalene
Reasonably Anticipated to be a Human Carcinogen.
Group 2B
No

Methanol
No
No
No

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: Aerosols
- Hazard class or division: 2.1
- Identification number: UN 1950
- Packing group: None
- DOT Hazardous Substance(s): Acetone

International Air Transportation (ICAO/IATA)
- Proper shipping name: Aerosols, flammable
- Hazard class or division: 2.1
- Identification number: UN 1950
- Packing group: None

Water Transportation (IMO/IMDG)
- Proper shipping name: AEROSOLS (Heptanes)
- Hazard class or division: 2.1
- Identification number: UN 1950
- Packing group: None
- Marine pollutant: Heptanes

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, Fire, Sudden Release
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Cyclohexane (CAS# 110-82-7).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. 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: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Donna Houston, Regulatory Affairs Specialist
Issue date: 07/17/2017

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