1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>LOCTITE TITEFOAM</th>
<th>ID number:</th>
<th>1988753</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type:</td>
<td>Foam, 1-component with propellant gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restriction of Use:</td>
<td>None identified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Company address:</td>
<td>Henkel Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One Henkel Way</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rocky Hill, Connecticut 06067</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Region:             | United States                             |            |         |

| IDH number          | 1988753                                   |            |         |

| 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

DANGER: CONTENTS UNDER PRESSURE.
EXREMELY FLAMMABLE AEROSOL.
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED.
CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABLE AEROSOL</td>
<td>1</td>
</tr>
<tr>
<td>GASES UNDER PRESSURE</td>
<td>Compr. Gas</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td>2</td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td>2A</td>
</tr>
<tr>
<td>RESPIRATORY SENSITIZATION</td>
<td>1</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
<td>1</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</td>
<td>1</td>
</tr>
</tbody>
</table>

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. Do not breathe mist or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.
Response:
IF ON SKIN: Wash with plenty of water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing.

Storage:
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.

2 % 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>Polyurethane prepolymer</td>
<td>Proprietary</td>
<td>70 - 80</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>115-10-6</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>101-68-8</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</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: If inhaled, immediately remove the affected person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Fresh foam: Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically. Immediately wash skin thoroughly with soap and water. Remove contaminated clothes.

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

Ingestion: Do not induce vomiting, seek medical advice immediately.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: powder foam Carbon dioxide. Do not use water.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear protective equipment.

Unusual fire or explosion hazards: Cool aerosol containers with jet of water. Containers may explode. Contents under pressure.
Hazardous combustion products: Isocyanate vapors. In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

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: Remove all sources of ignition. Ventilate area. Wear appropriate personal protective equipment.

Clean-up methods: Allow to solidify. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Do not puncture or incinerate pressurized containers. Ensure adequate ventilation, especially in confined areas. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep out of the reach of children. When using do not eat, drink or smoke. Wear suitable protective clothing, gloves and eye/face protection. Refer to Section 8.

Storage: Store between 50°F and 80°F (10°C and 27°C). Store away from heat, sparks, flames, or other sources of ignition. Do not store above 49°C (120°F). Do not cut or weld container.

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>Polyurethane prepolymer</td>
<td>None</td>
<td>None</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>Methylenedibis(phenylisocyanate)</td>
<td>0.005 ppm TWA</td>
<td>0.02 ppm (0.2 mg/m3) Ceiling</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Isobutane</td>
<td>1,000 ppm STEL</td>
<td>None</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>Butane</td>
<td>1,000 ppm STEL</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Eye/face protection: Wear safety glasses with side shields.

Skin protection: Rubber gloves recommended. Suitable protective clothing.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol
Color: Yellow-white
Odor: slightly of ether
Odor threshold: Not available.
pH: Not available.
Vapor pressure: > 100 mm hg (20 °C (68°F))
Boiling point/range: <-17.7 °C (< 0.1 °F) Compressed Gas.
Melting point/ range: Not available.
Specific gravity: 1.107
Vapor density: < 1 (Air = 1)
Flash point: -104 °C (-155.2 °F)
Flammable/Explosive limits - lower: 0.4 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
Flammable/Explosive limits - upper: 32 % The product is not explosive. The formation of explosive vapor/air mixtures is possible.
Autoignition temperature: Not available.
Flammability: Extremely flammable aerosol.
Evaporation rate: 10 (Butyl acetate = 1)
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 19.28 %; 208.6 g/l (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: May occur.
Hazardous decomposition products: carbon dioxide carbon monoxide nitrogen oxides
Reactivity: Not available.
Conditions to avoid: Keep away from sources of ignition and naked flames.

11. TOXICOLOGICAL INFORMATION

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

**Inhalation:** Inhalation of mist or spray may be harmful. As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Persons suffering from allergic reactions to isocyanates should avoid contact with the product. May cause dizziness, incoordination, headache, nausea, and vomiting.

**Skin contact:** Persons suffering from allergic reactions to isocyanates should avoid contact with the product. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction. This product may discolor the skin. Cured material is difficult to remove.

**Eye contact:** Contact with eyes can cause eye irritation.

**Ingestion:** Can cause irritation of mucous membranes. Nausea.

<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>Polyurethane prepolymer</td>
<td>None</td>
<td>No Records</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>Inhalation LC50 (Rat, 4 h) = 308.5 mg/l</td>
<td>Irritant, Central nervous system</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50 (Rat, 4 h) = 164000 ppm</td>
<td></td>
</tr>
<tr>
<td>Methylenebis(phenylisocyanate)</td>
<td>Inhalation LC50 (Rat, 4 h) = 0.38 mg/l</td>
<td>Irritant, Respiratory, Allergen</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50 (Rat, 4 h) = 0.369 mg/l</td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>None</td>
<td>Cardiac, Central nervous system, Lung</td>
</tr>
<tr>
<td>Propane</td>
<td>None</td>
<td>Cardiac, Central nervous system, Irritant</td>
</tr>
<tr>
<td>Butane</td>
<td>Inhalation LC50 (Rat, 4 h) = 658 mg/l</td>
<td>Cardiac, Central nervous system, Irritant</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: 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

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
Hazard class or division: 2.1
Identification number: UN 1950
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: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Sudden Release
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: 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.

Hazardous Materials Information Review Act: 10782, 2016-12-12
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): 2,9

Prepared by: Mary Ellen Roddy, Manager, Regulatory Affairs

Issue date: 05/11/2017

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