1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Aluminum Jelly Rust Dissolver
Item No. 1415346
Product type: Rust Dissolver
Region: United States
Company address: Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>10-30</td>
<td>1 mg/m³ TWA</td>
<td>1 mg/m³ TWA</td>
<td>None</td>
</tr>
<tr>
<td>7664-38-2</td>
<td></td>
<td>3 mg/m³ STEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethyleneglycol monoethyl ether</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>25 ppm TWA, (WEEL)</td>
</tr>
<tr>
<td>111-90-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonionic surfactant</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>1-5</td>
<td>200 ppm TWA</td>
<td>400 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
<td>400 ppm STEL</td>
<td>980 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Polysaccharide</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>0.1-1</td>
<td>0.2 mg/m³ TWA thoracic fraction</td>
<td>1 mg/m³ TWA</td>
<td>None</td>
</tr>
<tr>
<td>7664-93-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**HMIS:**

**HEALTH:** 3*

**FLAMMABILITY:** 1

**PHYSICAL HAZARD:** 0

**Personal Protection:** See Section 8

**DANGER:**

- CAUSES EYE AND SKIN BURNS.
- MAY CAUSE RESPIRATORY TRACT IRRITATION.
- MAY BE HARMFUL IF SWALLOWED.
- MAY AFFECT THE CENTRAL NERVOUS SYSTEM.

**Potential Health Effects**

**Inhalation:**

May cause respiratory tract irritation. Prolonged inhalation of large concentrations can be irritating to lungs, and mucous membranes of nose and throat.

**Skin contact:**

Causes skin burns. May cause skin irritation. Redness.

**Eye contact:**


**Relevant routes of exposure:**

Eye contact, Skin contact, Inhalation, Ingestion

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**Item No.:** 1415346

**Product name:** Loctite Aluminum Jelly

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**Revision No.:** 001

**Issue date:** 03/22/2010
Ingestion: May be harmful if swallowed. May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties.


See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). If symptoms persist, obtain medical attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point: None.

Autoignition temperature: Not applicable

Flammable/Explosive limits-lower %: Not applicable

Flammable/Explosive limits-upper %: Not applicable

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: None

Unusual fire or explosion hazards: Not flammable, however Hydrogen gas may be liberated if product contacts powdered metals or metals above 185°F.

Hazardous combustion products: None known.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Ensure adequate ventilation. Neutralize acid using lime or a lime based agent compatible with the product. Soak up with inert absorbent. Flush with water. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling: Do not get in eyes. Do not get on skin or clothing. Do not taste or swallow. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

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

Incompatible products: Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Item No.: 1415346

Product name: Loctite Aluminum Jelly
Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Chemical resistant, impermeable gloves.

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor:</td>
<td>Grape</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Low</td>
</tr>
<tr>
<td>pH:</td>
<td>1.5 - 2.5</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>Approximately 100°C (212°F)</td>
</tr>
<tr>
<td>Melting point/range:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>1.05</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Soluble.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC content:</td>
<td>2.23%; 23.73 grams/liter</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Hydrogen, by reaction with metals


Conditions to avoid: Storage with incompatible materials. Extremes of temperature and direct sunlight.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Carcinogen Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous components</td>
</tr>
<tr>
<td>Phosphoric acid 7664-38-2</td>
</tr>
<tr>
<td>Diethyleneeglycol monoethyl ether 111-90-0</td>
</tr>
<tr>
<td>Nonionic surfactant Proprietary</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
</tr>
<tr>
<td>Polysaccharide Proprietary</td>
</tr>
<tr>
<td>Sulfuric acid 7684-93-9</td>
</tr>
</tbody>
</table>

Literature Referenced Target Organ & Other Health Effects
<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyleneglycol monoethyl ether 111-90-0</td>
<td>Blood, Central nervous system, Irritant, Kidney</td>
</tr>
<tr>
<td>Nonionic surfactant Proprietary</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>Allergen, Blood, Central nervous system, Irritant, Kidney, Liver, Brain, Spleen</td>
</tr>
<tr>
<td>Polysaccharide Proprietary</td>
<td>Irritant</td>
</tr>
<tr>
<td>Sulfuric acid 7664-93-9</td>
<td>Corrosive, Irritant, Lung, Human carcinogen</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.

EPA hazardous waste number: D002: Corrosive.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):
- Proper shipping name: Phosphoric acid Solution
- Hazard class or division: 8
- Identification number: UN 1805
- Packing group: III
- Exceptions: (Not more than 4L) Consumer Commodity ORM-D
- Marine pollutant: None

International Air Transportation (ICAO/IATA):
- Proper shipping name: Phosphoric acid Solution
- Hazard class or division: 8
- Identification number: UN1805
- Packing group: III

WaterTransportation (IMO/IMDG):
- Proper shipping name: Phosphoric acid Solution
- Hazard class or division: 8
- Identification number: UN1805
- Packing group: III
- Marine pollutant: 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 5 (a) (2) SNUR: None.
TSCA 12 (b) Export Notification: None.
CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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). Diethyleneglycol monoethyl ether (CAS# 111-90-0).
CERCLA/SARA 313:

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.

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): 14

Prepared by: Regulatory Affairs

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