1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Naval Jelly Rust Dissolver
IDH No. 1381191, 55342, 235119
Product type: Rust Dissolver
Region: United States
Company address:
Henkel Corporation
32150 Just Imagine Drive
Avon, Ohio 44011

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>Phosphate ester</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>UNKNOWN</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</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>

Non hazardous components
Water > 50%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:
- HEALTH: 1*
- FLAMMABILITY: 0
- PHYSICAL HAZARD: 0
- Personal Protection: See Section 8

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion

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: May cause skin irritation.

Eye contact: Contact with eyes will cause irritation. May injure eye tissue if not removed promptly.

Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Respiratory disorders.

Item No.: 1381191

Product name: Loctite Naval Jelly Rust Dissolver
See Section 11 for additional toxicological information.

### 4. FIRST AID MEASURES

**Inhalation:**
Remove to fresh air. If discomfort persists seek 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. Keep individual calm. Obtain medical attention.

### 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:**
Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling.

**Storage:**
Keep from freezing.

**Incompatible products:**
Caustics. Powdered metals.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:**
General ventilation is acceptable if the exposure to materials in section 2 is maintained below applicable exposure limits. Refer to OSHA standards 1910.94, 1910.107, 1910.108

**Respiratory protection:**
Not normally required.

**Skin protection:**
Disposable rubber or plastic gloves.

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

See Section 2 for exposure limits.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Gel
Color: Pink
Odor: Lime
Vapor pressure: Low
pH: 1.5 - 2.5
Boiling point/range: Approximately 100°C (212°F)
Melting point/range: Not applicable
Specific gravity: 1.191
Vapor density: Not available
Evaporation rate: Not available
Solubility in water: Soluble.
Partition coefficient (n-octanol/water): Not available
VOC content: (calculated) 2.4%; 28.6 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Hydrogen, by reaction with metals
Incompatability: Powdered metals. Caustics.
Conditions to avoid: Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7664-38-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphate ester</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>87-63-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polysaccharide</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>Known Carcinogen</td>
<td>Group 1</td>
<td>Yes</td>
</tr>
<tr>
<td>7664-93-9</td>
<td></td>
<td></td>
<td></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>Phosphoric acid</td>
<td>Corrosive, Irritant</td>
</tr>
<tr>
<td>7664-38-2</td>
<td></td>
</tr>
<tr>
<td>Phosphate ester</td>
<td>No data</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Allergen, Blood, Central nervous system, Irritant, Kidney, Liver, Brain, Spleen</td>
</tr>
<tr>
<td>87-63-0</td>
<td></td>
</tr>
<tr>
<td>Polysaccharide</td>
<td>Irritant</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>Corrosive, Irritant, Lung, Human carcinogen</td>
</tr>
<tr>
<td>7664-93-9</td>
<td></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: Not a RCRA hazardous waste. Waste must be tested to determine the applicable EPA hazardous waste numbers.

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 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
CERCLA/SARA 313: Sulfuric acid (7664-93-9).
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): 2,3,15

Prepared by: Regulatory Affairs (440) 937-7000 05/08 Rev 04/09

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