



Revision Number: 001.2

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**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>Loctite® Naval Jelly® Rust Dissolver</b>    | <b>IDH number:</b>  | 1381191       |
| <b>Product type:</b>          | Rust dissolver                                 | <b>Item number:</b> | 1381191       |
|                               |  | <b>Region:</b>      | United States |
| <b>Company address:</b>       | <b>Contact information:</b>                    |                     |               |
| Henkel Corporation            | Telephone: 860.571.5100                        |                     |               |
| One Henkel Way                | MEDICAL EMERGENCY Phone: Poison Control Center |                     |               |
| Rocky Hill, Connecticut 06067 | 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   |                     |               |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

|                        |   |                             |                    |
|------------------------|---|-----------------------------|--------------------|
| <b>Physical state:</b> | gel   | <b>HMIS:</b>                |                    |
| <b>Color:</b>          | pink  | <b>HEALTH:</b>              | *1                 |
| <b>Odor:</b>           | Lime  | <b>FLAMMABILITY:</b>        | 0                  |
|                        |   | <b>PHYSICAL HAZARD:</b>     | 0                  |
|                        |   | <b>Personal Protection:</b> | See MSDS Section 8 |
| <b>WARNING:</b>        | CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.<br>MAY CAUSE EYE, SKIN AND RESPIRATORY BURNS.<br>HARMFUL IF SWALLOWED. |                             |                    |

**Relevant routes of exposure:** Skin, Lungs, Ingestion, Eye contact

**Potential Health Effects**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Irritates the nose, throat and respiratory system.                               |
| <b>Skin contact:</b> | Causes skin irritation. Repeated or prolonged contact may cause burns.           |
| <b>Eye contact:</b>  | Liquid or vapor can cause moderate to severe irritation. Possible burns to eyes. |
| <b>Ingestion:</b>    | Harmful if swallowed.  |

**Existing conditions aggravated by exposure:** Respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Hazardous components    | CAS NUMBER | %       |
|-------------------------|------------|---------|
| Phosphoric acid         | 7664-38-2  | 10 - 30 |
| 2-Propanol              | 67-63-0    | 1 - 5   |
| Sulfuric acid           | 7664-93-9  | 0.1 - 1 |
| Silicon dioxide         | 7631-86-9  | 0.1 - 1 |
| Diiron trioxide         | 1309-37-1  | 0.1 - 1 |
| Magnesium oxide         | 1309-48-4  | 0.1 - 1 |
| Aluminum oxide, fibrous | 1344-28-1  | 0.1 - 1 |

**4. FIRST AID MEASURES**

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

|                      |   |
|----------------------|---|
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. |
| <b>Eye contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.                                     |
| <b>Ingestion:</b>    | Get medical attention. Keep individual calm. Do not induce vomiting.  |

## 5. FIRE FIGHTING MEASURES

|  |   |
|--|---|
| <b>Flash point:</b>                        | Not determinable.   |
| <b>Autoignition temperature:</b>           | Not applicable  |
| <b>Flammable/Explosive limits - lower:</b> | Not applicable  |
| <b>Flammable/Explosive limits - upper:</b> | Not applicable  |
| <b>Extinguishing media:</b>                | Foam, dry chemical or carbon dioxide.   |
| <b>Special firefighting procedures:</b>    | None  |
| <b>Unusual fire or explosion hazards:</b>  | Not flammable, however Hydrogen gas may be liberated if product contacts powdered metals or metals above 185°F. |
| <b>Hazardous combustion products:</b>      | None known  |

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

|                                   |  |
|-----------------------------------|--|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.  |
| <b>Clean-up methods:</b>          | Store in a partly filled, closed container until disposal. Flush with water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Neutralize acid using lime or a lime based agent compatible with the product. Ensure adequate ventilation. |

## 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling:</b> | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. |
| <b>Storage:</b>  | Keep from freezing.  |

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 components    | ACGIH TLV                           | OSHA PEL   | AIHA WEEL | OTHER |
|-------------------------|-------------------------------------|--|-----------|-------|
| Phosphoric acid         | 1 mg/m3 TWA<br>3 mg/m3 STEL         | 1 mg/m3 TWA  | None      | None  |
| 2-Propanol              | 200 ppm TWA<br>400 ppm STEL         | 400 ppm (980 mg/m3) TWA  | None      | None  |
| Sulfuric acid           | 0.2 mg/m3 TWA<br>Thoracic fraction. | 1 mg/m3 TWA  | None      | None  |
| Silicon dioxide         | 6 mg/m3 TWA                         | 20 MPPCF TWA<br>0.8 mg/m3 TWA                                      | None      | None  |
| Diiron trioxide         | 5 mg/m3 TWA<br>Respirable fraction. | 10 mg/m3 TWA<br>Fume.  | None      | None  |
| Magnesium oxide         | 10 mg/m3 TWA<br>Inhalable fraction. | 15 mg/m3 TWA<br>Total particulate.                                 | None      | None  |
| Aluminum oxide, fibrous | 1 mg/m3 TWA<br>Respirable fraction. | 5 mg/m3 TWA<br>Respirable fraction.<br>15 mg/m3 TWA<br>Total dust. | None      | None  |

|                                |  |
|--------------------------------|--|
| <b>Engineering controls:</b>   | 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, and 1910.108. |
| <b>Respiratory protection:</b> | Not normally required.   |
| <b>Eye/face protection:</b>    | Safety goggles or safety glasses with side shields.  |
| <b>Skin protection:</b>        | Disposable rubber or plastic gloves.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                                   |
|---|-----------------------------------|
| <b>Physical state:</b>                          | gel                               |
| <b>Color:</b>                                   | pink                              |
| <b>Odor:</b>                                    | Lime                              |
| <b>Odor threshold:</b>                          | Not available.                    |
| <b>pH:</b>                                      | 1.5 - 2.5                         |
| <b>Vapor pressure:</b>                          | Not available.                    |
| <b>Boiling point/range:</b>                     | 212 °F (100°C) None Approximately |
| <b>Melting point/ range:</b>                    | Not applicable                    |
| <b>Specific gravity:</b>                        | 1.191                             |
| <b>Vapor density:</b>                           | Not available.                    |
| <b>Flash point:</b>                             | Not determinable.                 |
| <b>Flammable/Explosive limits - lower:</b>      | Not applicable                    |
| <b>Flammable/Explosive limits - upper:</b>      | Not applicable                    |
| <b>Autoignition temperature:</b>                | Not applicable                    |
| <b>Evaporation rate:</b>                        | Not available.                    |
| <b>Solubility in water:</b>                     | Soluble                           |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.                    |
| <b>VOC content:</b>                             | 2.4 %; 28.6 g/l (calculated)      |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable                                  |
| <b>Hazardous reactions:</b>              | Will not occur.                         |
| <b>Hazardous decomposition products:</b> | Hydrogen, by reaction with metals.      |
| <b>Incompatible materials:</b>           | Caustics. Powdered metals.              |
| <b>Conditions to avoid:</b>              | Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components    | NTP Carcinogen                | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|-------------------------|-------------------------------|-----------------|---|
| Phosphoric acid         | No                            | No              | No  |
| 2-Propanol              | No                            | No              | No  |
| Sulfuric acid           | Known To Be Human Carcinogen. | Group 1         | No  |
| Silicon dioxide         | No                            | No              | No  |
| Diiron trioxide         | No                            | No              | No  |
| Magnesium oxide         | No                            | No              | No  |
| Aluminum oxide, fibrous | No                            | No              | No  |

| Hazardous components    | Health Effects/Target Organs  |
|-------------------------|---|
| Phosphoric acid         | Irritant, Corrosive   |
| 2-Propanol              | Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen |
| Sulfuric acid           | Carcinogen, Corrosive, Irritant, Lung   |
| Silicon dioxide         | Nuisance dust   |
| Diiron trioxide         | Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung        |
| Magnesium oxide         | Blood, Central nervous system, Immune system, Irritant                          |
| Aluminum oxide, fibrous | Irritant, Nuisance dust, Corrosive  |

## 12. ECOLOGICAL INFORMATION

**Ecological information:**

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 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:** Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

**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  
**DOT Reportable quantity:** Phosphoric acid  
**Exceptions:** Consumer Commodity, (Not more than 4 L), ORM-D

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Phosphoric acid, solution  
**Hazard class or division:** 8  
**Identification number:** UN 1805  
**Packing group:** III

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** PHOSPHORIC ACID SOLUTION  
**Hazard class or division:** 8  
**Identification number:** UN 1805  
**Packing group:** III

**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 minimus  
**CERCLA/SARA Section 302 EHS:**  
**CERCLA/SARA Section 311/312:** Immediate Health  
**CERCLA/SARA 313:** None above reporting de minimus  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

**CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.  
**WHMIS hazard class:** D.2.A, D.2.B, E

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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