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**1. PRODUCT AND COMPANY IDENTIFICATION**

|                               |  |                     |               |
|-------------------------------|--|---------------------|---------------|
| <b>Product name:</b>          | <b>LOCTITE MSC 1000S 250ML</b>                 | <b>IDH number:</b>  | 292961        |
| <b>Product type:</b>          | Temporary solder resist                        | <b>Item number:</b> | M292961       |
| <b>Restriction of Use:</b>    | None identified                                | <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   |                     |               |
|                               | Internet: www.henkelna.com                     |                     |               |

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**DANGER:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING  
DIFFICULTIES IF INHALED.

| HAZARD CLASS              | HAZARD CATEGORY |
|---------------------------|-----------------|
| SKIN IRRITATION           | 2               |
| EYE IRRITATION            | 2A              |
| RESPIRATORY SENSITIZATION | 1               |
| SKIN SENSITIZATION        | 1               |

**PICTOGRAM(S)**



**Precautionary Statements**

|                    |   |
|--------------------|---|
| <b>Prevention:</b> | Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. 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.  |
| <b>Response:</b>   | 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. |
| <b>Storage:</b>    | Not prescribed  |
| <b>Disposal:</b>   | Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.   |

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number  | Percentage* |
|------------------------|-------------|-------------|
| Rubber, natural        | 9006-04-6   | 30 - 60     |
| Titanium dioxide       | 13463-67-7  | 1 - 5       |
| Organic Zinc Salt      | Proprietary | 0.1 - 1     |

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.                                      |
| <b>Skin contact:</b> | Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse. |
| <b>Eye contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.  |
| <b>Symptoms:</b>     | See Section 11.  |

### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.  |
| <b>Special firefighting procedures:</b>   | Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. |
| <b>Unusual fire or explosion hazards:</b> | None  |
| <b>Hazardous combustion products:</b>     | Acrid smoke and fumes.  |

### 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>          | Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. |

## 7. HANDLING AND STORAGE

**Handling:** Use only with adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

**Storage:** Keep container closed. Store in original container until ready to use. Keep in a cool, well ventilated area.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 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 Component(s) | ACGIH TLV  | OSHA PEL                             | AIHA WEEL | OTHER |
|------------------------|--|--------------------------------------|-----------|-------|
| Rubber, natural        | 0.0001 mg/m <sup>3</sup> TWA (as allergenic protein) Inhalable fraction. (SKIN) (as allergenic protein) Inhalable fraction. (Dermal sensitization) (Respiratory sensitization) | None                                 | None      | None  |
| Titanium dioxide       | 10 mg/m <sup>3</sup> TWA   | 15 mg/m <sup>3</sup> PEL Total dust. | None      | None  |
| Organic Zinc Salt      | None   | None                                 | None      | None  |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                  |
|---|------------------|
| <b>Physical state:</b>                          | Viscous, Liquid  |
| <b>Color:</b>                                   | White            |
| <b>Odor:</b>                                    | Ammoniacal       |
| <b>Odor threshold:</b>                          | Not available.   |
| <b>pH:</b>                                      | Weakly, Alkaline |
| <b>Vapor pressure:</b>                          | Not determined   |
| <b>Boiling point/range:</b>                     | 100 °C (212°F)   |
| <b>Melting point/ range:</b>                    | 0 °C (32°F)      |
| <b>Specific gravity:</b>                        | 1 Approximately  |
| <b>Vapor density:</b>                           | Not determined   |
| <b>Flash point:</b>                             | Does not flash.  |
| <b>Flammable/Explosive limits - lower:</b>      | Not available.   |
| <b>Flammable/Explosive limits - upper:</b>      | Not available.   |
| <b>Autoignition temperature:</b>                | Not available.   |
| <b>Flammability:</b>                            | Not applicable   |
| <b>Evaporation rate:</b>                        | Not available.   |
| <b>Solubility in water:</b>                     | Miscible         |
| <b>Partition coefficient (n-octanol/water):</b> | Not available.   |
| <b>VOC content:</b>                             | < 1 %            |
| <b>Viscosity:</b>                               | Not available.   |
| <b>Decomposition temperature:</b>               | Not available.   |

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.                        |
| <b>Hazardous reactions:</b>              | Will not occur.   |
| <b>Hazardous decomposition products:</b> | Thermal decomposition can lead to release of irritating gases and vapors. |
| <b>Incompatible materials:</b>           | Strong oxidizing agents. Strong acids and strong bases.                   |
| <b>Reactivity:</b>                       | Not available.  |
| <b>Conditions to avoid:</b>              | Extremes of temperature.  |

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects/Symptoms**

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Inhalation of processing fumes may be harmful. May cause allergic respiratory reaction. |
| <b>Skin contact:</b> | Causes skin irritation. May cause allergic skin reaction.                               |
| <b>Eye contact:</b>  | Causes serious eye irritation.  |
| <b>Ingestion:</b>    | Not expected under normal conditions of use.  |

| Hazardous Component(s) | LD50s and LC50s  | Immediate and Delayed Health Effects                    |
|------------------------|--|---|
| Rubber, natural        | None   | Allergen, Irritant, Respiratory                         |
| Titanium dioxide       | None   | Irritant, Respiratory, Some evidence of carcinogenicity |
| Organic Zinc Salt      | Oral LD50 (Rat) = 3,340 mg/kg<br>Oral LD50 (Mouse) = 142 mg/kg<br>Oral LD50 (Rabbit) = 400 mg/kg | Allergen, Central nervous system, Irritant, Liver       |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Rubber, natural        | No             | No              | No                                       |
| Titanium dioxide       | No             | Group 2B        | No                                       |
| Organic Zinc Salt      | No             | No              | No                                       |

## 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. 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:** Not a RCRA hazardous waste.

## 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:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

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

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**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  
**CERCLA/SARA Section 313:** None above reporting de minimis.

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

#### 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.

## 16. OTHER INFORMATION

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

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