



Revision Number: 008.2

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1. IDENTIFICATION

| | | | |
|--------------------------------------|---|---------------------|--------|
| Product name: | Loctite(R) Dri-Seal(TM) 513 Adhesive Sealant | IDH number: | 234327 |
| Product type/Recommended use: | Threadlocker | Item number: | 51391 |
| Restriction of Use: | None identified | Region: | Canada |
| Company address: | Contact information: | | |
| Henkel Canada Corporation | Telephone: +1 (905) 814-6511 | | |
| Meadowpine Boulevard 2515 | MEDICAL EMERGENCY Phone: Poison Control Center | | |
| Mississauga, Ontario L5N 6C3 | 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 | | |
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| | Internet: www.henkelna.com | | |

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: H350 - MAY CAUSE CANCER.

HAZARD CLASS

CARCINOGENICITY

HAZARD CATEGORY

1A

PICTOGRAM(S)



Precautionary Statements

| | |
|--------------------|---|
| Prevention: | P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, clothing, eye and face protection. |
| Response: | P308+P313 - IF exposed or concerned: Get medical attention. |
| Storage: | P405 - Store locked up. |
| Disposal: | P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations. |

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision 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 | Weight %* |
|--|------------|-----------|
| Mica | 12001-26-2 | 10 - 30 |
| Ethene, tetrafluoro-, homopolymer | 9002-84-0 | 10 - 30 |
| Propane-1,2-diol | 57-55-6 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 1 - 5 |
| Quartz (SiO ₂), <1% respirable | 14808-60-7 | 0.1 - 1 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

| | |
|--|--|
| Inhalation: | If inhaled, immediately remove the affected person to fresh air. If symptoms develop and persist, get medical attention. |
| Skin contact: | Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention. |
| Eye contact: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. |
| Ingestion: | Get immediate medical attention. Do not induce vomiting. |
| Most important symptoms and effects (acute and delayed): | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information. |
| Indication of any immediate medical attention / special treatment needed: | Treat symptomatically and supportively. |

5. FIRE FIGHTING MEASURES

| | |
|---|--|
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Improper extinguishing agents: | Not available. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| Unusual fire or explosion hazards: | Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers. |

Hazardous combustion products:

Oxides of carbon. Irritating organic vapours. Toxic fluorides.

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:

Prevent further leakage or spillage. Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways.

Clean-up methods:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapors or mists of this product. Use only with adequate ventilation. Do not take internally. For industrial use only.

Storage:

For safe storage, store at or below 38 °C (100.4 °F)
Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|-----------------------------------|--|---|--------------------------|--|
| Mica | 0.1 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction. | None | None |
| Ethene, tetrafluoro-, homopolymer | None | None | None | 10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. |
| Propane-1,2-diol | None | None | 10 mg/m3 TWA Aerosol. | None |
| Titanium dioxide | 0.2 mg/m3 TWA Respirable nanoscale particles 2.5 mg/m3 TWA Respirable finescale particles | 15 mg/m3 PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. | None | None |
| Quartz (SiO2), <1% respirable | 0.025 mg/m3 TWA Respirable fraction. | 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. 2.4 MPPCF TWA Respirable 0.1 mg/m3 TWA Respirable | None | None |

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection:

Wear chemical goggles; face shield (if splashing is possible).

Skin protection:

Wear impervious gloves for prolonged contact. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Physical state: | Liquid |
| Color: | White |
| Odor: | Mild |
| Odor threshold: | Not available. |
| pH: | 7.8 - 8.0 |
| Vapor pressure: | 20 mm hg no method / method unknown Approximately 23.4 hPa (20 °C (68°F)) |
| Boiling point/range: | 100 °C (212°F) |
| Melting point/ range: | Not applicable, Product is a liquid |
| Density/Relative density: | 1.2 - 1.25 |
| Relative vapor density: | < 1 20 °C |
| Flash point: | > 100.00 °C (> 212°F) Tagliabue closed cup |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Flammability: | The product is not flammable. |

| | |
|---|-------------------------------------|
| Evaporation rate: | Not available. |
| Solubility: | Miscible Water |
| Partition coefficient n-octanol/water (logarithmic value): | Not available. |
| VOC content: | 6.6 % EPA Method 24 |
| Dynamic viscosity: | 700 - 1,200 mPa.s |
| Kinematic viscosity: | > 20.5 mm ² /s |
| Particle characteristics: | Not applicable, Product is a liquid |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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|--|--|
| Stability: | Stable under normal conditions of storage and use. |
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Irritating organic vapours. Toxic fluorides. |
| Incompatible materials: | Strong alkalis. Strong oxidizing agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. |

11. TOXICOLOGICAL INFORMATION

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|-----------------------------------|-----------------------------------|
| Likely routes of exposure: | Skin, Inhalation, Eyes, Ingestion |
|-----------------------------------|-----------------------------------|

Potential Health Effects/Symptoms

Inhalation: Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release. Inhalation of vapors or mists of the product may be irritating to the respiratory system. May cause respiratory tract irritation.

Skin contact: May cause skin irritation.

Eye contact: May cause irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed. Not expected under normal conditions of use.

| Hazardous Component(s) | LD50s and LC50s |
|-----------------------------------|--|
| Mica | None |
| Ethene, tetrafluoro-, homopolymer | None |
| Propane-1,2-diol | Oral LD50 (Rabbit) = 18 g/kg Oral LD50 (Mouse) = 23.9 g/kg Oral LD50 (Rat) = 30 g/kg |
| Titanium dioxide | Inhalation LC50 (Rat, 4 h) = > 6.82 mg/l Inhalation LC50 (Rat, 4 h) = > 2.28 mg/l Inhalation LC50 (Rat, 4 h) = > 3.56 mg/l |
| Quartz (SiO2), <1% respirable | None |

| Hazardous Component(s) | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects |
|-----------------------------------|--------------------------|------------------------|---|
| Mica | | | Lung |
| Ethene, tetrafluoro-, homopolymer | | | |
| Propane-1,2-diol | Irritant | | |
| Titanium dioxide | Irritant | | Respiratory Some evidence of carcinogenicity |
| Quartz (SiO2), <1% respirable | | | Immune system Lung Some evidence of carcinogenicity |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-----------------------------------|-------------------------------|-----------------|--|
| Mica | No | No | No |
| Ethene, tetrafluoro-, homopolymer | No | No | No |
| Propane-1,2-diol | No | No | No |
| Titanium dioxide | No | Group 2B | No |
| Quartz (SiO2), <1% respirable | Known To Be Human Carcinogen. | Group 1 | Yes |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

Canada Transportation of Dangerous Goods - Ground

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

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.

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 9

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