



Revision Number: 008.0

Issue date: 03/16/2022

1. PRODUCT AND COMPANY IDENTIFICATION

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|-------------------------------|--|---------------------|---------------|
| Product name: | LOCTITE SI 5970 50 LB | IDH number: | 360232 |
| Product type/use: | Silicone sealant | Item number: | 35230 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Contact information: | | |
| Henkel Corporation | Telephone: +1 (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

WARNING: MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE IRRITATION.

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

PICTOGRAM(S)



Precautionary Statements

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| Prevention: | 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. |
| Response: | IF ON SKIN: Wash with plenty of water. 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. Wash contaminated clothing before reuse. |
| Storage: | Not prescribed |
| Disposal: | 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* |
|----------------------------------|-------------|-------------|
| Limestone | 1317-65-3 | 30 - 60 |
| Calcium carbonate | 471-34-1 | 5 - 10 |
| Filler | Proprietary | 1 - 5 |
| 1,1,1,3,3,3-Hexamethyldisilazane | 999-97-3 | 1 - 5 |
| Carbon black - Nano | 1333-86-4 | 1 - 5 |
| Quartz (SiO2), <1% respirable | 14808-60-7 | 0.1 - 1 |
| 3-aminopropyltriethoxysilane | 919-30-2 | 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

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| Inhalation: | Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms develop and persist, get medical attention. |
| Skin contact: | Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician. |
| Eye contact: | In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention. |
| Ingestion: | Prevent vomiting if possible. Get medical attention. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Prevent inhalation of fumes and gases. |
| Unusual fire or explosion hazards: | None |
| Hazardous combustion products: | Oxides of carbon. Oxides of silicon. Irritating organic vapours. Formaldehyde. |

6. ACCIDENTAL RELEASE MEASURES

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

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| Environmental precautions: | Do not allow material to contaminate ground water system. |
| Clean-up methods: | Scrape up as much material as possible. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber. |

7. HANDLING AND STORAGE

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| Handling: | Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. |
| Storage: | For safe storage, store between 8 °C (46.4 °F) and 28 °C (82.4 °F) Store in a dry area below 90° F. |

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 |
|--|---|--|---------------------------|-------|
| Limestone | 10 mg/m3 TWA Inhalable particles. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Total dust. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction. | None | None |
| Calcium carbonate | 10 mg/m3 TWA Total dust. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 5 mg/m3 TWA Respirable fraction. | None | None |
| Filler | 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles. | 0.8 mg/m3 TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction. | None | None |
| 1,1,1,3,3,3-Hexamethyldisilazane | None | None | 10 ppm TWA 50 ppm STEL | None |
| Carbon black - Nano | 3 mg/m3 TWA Inhalable fraction. | 3.5 mg/m3 PEL 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. | None | None |
| Quartz (SiO ₂), <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 |
| 3-aminopropyltriethoxysilane | None | None | None | None |

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

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:

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|-----------------------------------|
| Physical state: | Paste |
| Color: | Black |
| Odor: | Slight, Alcoholic |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | < 5 mm hg (25 °C (77°F)) |
| Boiling point/range: | Not available. |
| Melting point/ range: | Not available. |
| Specific gravity: | 1.4 |
| Vapor density: | Not available. |
| Flash point: | > 100 °C (> 212°F) |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Flammability: | Not applicable |
| Evaporation rate: | Not available. |
| Solubility in water: | Polymerises in presence of water. |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | 2.7 %; 37.8 g/l |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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| Stability: | Stable under normal conditions of storage and use. |
| Hazardous reactions: | Will not occur. |
| Hazardous decomposition products: | Formaldehyde. Oxides of silicon. Thermal decomposition can lead to release of irritating gases and vapors. Methanol is liberated slowly upon exposure to moisture. |
| Incompatible materials: | Acids. Bases. Oxidizing agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Exposure to moisture. |

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. 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.

Skin contact: May cause allergic skin reaction. May cause skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|--|--|---|
| Limestone | None | Nuisance dust |
| Calcium carbonate | Oral LD50 (Rat) = 6,450 mg/kg Oral LD50 (Mouse) = 6,450 mg/kg Inhalation LC50 (Rat, 4 h) = > 3 mg/l | Nuisance dust |
| Filler | None | No Target Organs |
| 1,1,1,3,3,3-Hexamethyldisilazane | Oral LD50 (Rat) = 847 mg/kg Oral LD50 (Rabbit) = 1,100 mg/kg Oral LD50 (Mouse) = 850 mg/kg Inhalation LC50 (Rat, 4 h) = 8,700 mg/m3 Inhalation LC50 (Rat, 4 h) = 10.3 mg/l | Irritant |
| Carbon black - Nano | Oral LD50 (Rat) = > 8,000 mg/kg | No Data |
| Quartz (SiO ₂), <1% respirable | None | Immune system, Lung, Some evidence of carcinogenicity |
| 3-aminopropyltriethoxysilane | Inhalation LC50 (Rat, 4 h) = > 7.35 mg/l | Irritant, Allergen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|-------------------------------|-----------------|--|
| Limestone | No | No | No |
| Calcium carbonate | No | No | No |
| Filler | No | No | No |
| 1,1,1,3,3,3-Hexamethyldisilazane | No | No | No |
| Carbon black - Nano | No | Group 2B | No |
| Quartz (SiO ₂), <1% respirable | Known To Be Human Carcinogen. | Group 1 | Yes |
| 3-aminopropyltriethoxysilane | No | No | No |

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 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

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|---|---|
| TSCA 8 (b) Inventory Status: | All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) 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 to the State of California to cause birth defects or other reproductive harm. 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: 2, 3, 8, 11, 13, 15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 03/16/2022

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