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1. IDENTIFICATION

Product name:	LOCTITE SI 596	IDH number:	2700318
Product type/	Silicone		
Recommended use:			
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	
		MEDICAL EMERGENCY Phone: Poison Control Center	
		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: H223 - FLAMMABLE AEROSOL.
 H229 - PRESSURIZED CONTAINER: MAY BURST IF HEATED.
 H315 - CAUSES SKIN IRRITATION.
 H319 - CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
AEROSOL	2
SKIN IRRITATION	2
EYE IRRITATION	2A

PICTOGRAM(S)



Precautionary Statements

Prevention:	P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P264 - Wash affected area thoroughly after handling.
Response:	P280 - Wear protective gloves, eye protection, and face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention.
Storage:	P362+P364 - Take off contaminated clothing and wash it before reuse.
Disposal:	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Not prescribed

Other hazards Not available.

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	Weight %*
Silicon dioxide	7631-86-9	5 - 10
1,1-Difluoroethane	75-37-6	1 - 5
Diiron trioxide	1309-37-1	1 - 5

* 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:	Move to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wipe off paste with paper towel or cloth. Wash with soap and water. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop and persist, get medical attention.
Ingestion:	Do not induce vomiting. Consult a physician if necessary.
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:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	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.
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Oxides of carbon. Oxides of silicon. Formaldehyde. Toxic and irritating vapors.

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:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Scrape up as much material as possible. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Do not wear contact lenses.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store between -20 °C (-4°F) and 50 °C (122°F)

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
Silicon dioxide	6 mg/m3 TWA 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
1,1-Difluoroethane	None	None	1,000 ppm (2,700 mg/m3) TWA	None
Diiron trioxide	5 mg/m3 TWA Respirable fraction.	10 mg/m3 PEL Fume. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None

Engineering controls: General room ventilation is usually adequate. Use local exhaust ventilation if the potential for airborne exposure exists.

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: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Color:	Red
Odor:	Acetic acid
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Density/Relative density:	1.02
Relative vapor density:	Not available.
Flash point:	< -50 °C (< -58°F) ASTM D3278
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility:	Not available.
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	0.35 %

Dynamic viscosity: Not available.
 Kinematic viscosity: Not available.
 Particle characteristics: Not available.
 Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Hazardous reactions: None under normal processing.
Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Formaldehyde.
Incompatible materials: Acids and bases. Oxidizing agents.
Reactivity: Not available.
Conditions to avoid: Excessive heat. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

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

Hazardous Component(s)	LD50s and LC50s
Silicon dioxide	Oral LD50 (Rat) = > 22,500 mg/kg Oral LD50 (Mouse) = > 15,000 mg/kg Inhalation LC50 (Rat, 4 h) = > 2.08 mg/l Inhalation LC50 (Rat, 4 h) = > 0.69 mg/l
1,1-Difluoroethane	Inhalation LC50 (Rat, 4 h) = > 437500 ppm
Diiron trioxide	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Silicon dioxide	Nuisance dust		
1,1-Difluoroethane	Irritant		Cardiac Central nervous system Developmental Respiratory
Diiron trioxide	Irritant	Allergen	Cardiac Central nervous system Kidney Liver Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silicon dioxide	No	No	No
1,1-Difluoroethane	No	No	No
Diiron trioxide	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 packaging.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

15. REGULATORY INFORMATION

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.

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: Please refer to the GHS classification in Section 2

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. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,8,11

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