

Safety Data Sheet



Revision Number: 007.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE SI 5083 LC known as LOCTITE 5083 NUVASIL FLW	IDH number:	229524
Product type/use:	Silicone sealant	Item number:	17528
Restriction of Use:	None identified	Region:	United States
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Contact information:	Telephone: +1 (860) 571-5100 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

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1C - Corrosive
SERIOUS EYE DAMAGE	1
REPRODUCTIVE TOXICITY	1B

PICTOGRAM(S)



Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. Wash affected area thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Wash contaminated clothing before reuse.
Storage:	Store locked up.
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*
Silica, amorphous, treated	68909-20-6	10 - 30
3-[tris(acetoxy)silyl]propyl methacrylate	51772-85-1	1 - 5
Methylsilanetriyl triacetate	4253-34-3	0.1 - 1
Triacetoxyethylsilane	17689-77-9	0.1 - 1

IDH number: 229524

Product name: LOCTITE SI 5083 LC known as LOCTITE 5083 NUVASIL FLW
Page 1 of 6

1,3-Bis(3-methacryloxypropyl)-1,1,3,3-tetraacetoxysiloxane	2296688-20-3	0.1 - 1
acetic acid	64-19-7	0.1 - 1
Acetic anhydride	108-24-7	0.1 - 1
dibutyltin dilaurate	77-58-7	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

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. If symptoms develop and persist, get medical attention.
Symptoms:	See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Foam, dry chemical or carbon dioxide. Do not use high volume water jet.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	In case of fire, keep containers cool with water spray.
Hazardous combustion products:	Oxides of carbon. Oxides of silicon. Formaldehyde.

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 material to contaminate ground water system.
Clean-up methods:	Scrape up as much material as possible. Place scrap material in a well ventilated area and allow to cure to rubber. Spilled material will solidify. Store in a partly filled, closed container until disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Storage:	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
Silica, amorphous, treated	10 mg/m ³ TWA Inhalable dust.	6 mg/m ³ TWA	None	None
3-[tris(acetoxy)silyl]propyl methacrylate	None	None	None	None
Methylsilanetriyl triacetate	None	None	None	None
Triacetoxyethylsilane	None	None	None	None
1,3-Bis(3-methacryloxypropyl)-1,1,3,3-tetraacetoxydisiloxane	None	None	None	None
acetic acid	15 ppm STEL 10 ppm TWA	10 ppm (25 mg/m ³) PEL	None	None
Acetic anhydride	1 ppm TWA 3 ppm STEL	5 ppm (20 mg/m ³) PEL	None	None
dibutyltin dilaurate	0.1 mg/m ³ TWA (as Sn) 0.2 mg/m ³ STEL (as Sn) (SKIN) (as Sn)	0.1 mg/m ³ PEL (as Sn)	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:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Transparent
Odor:	Acetic acid
Odor threshold:	Not available.
pH:	7 - 9
Vapor pressure:	< 10 mm hg (21 °C (69.8 °F))
Boiling point/range:	> 145 °C (> 293°F)
Melting point/ range:	> 400 °C (> 752°F)
Specific gravity:	1.1
Vapor density:	Not applicable, Product is a solid.
Flash point:	Not applicable
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 in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	3.36 %; 37.7 g/l
Viscosity:	Not available.
Decomposition temperature:	> 100 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Acetic acid is liberated slowly upon contact with moisture. Oxides of carbon. Oxides of silicon. Formaldehyde.
Incompatible materials:	Acids. Bases. Oxidizing agents. Heat, sunlight, or UV light. Water.
Reactivity:	Not available.
Conditions to avoid:	Product is sensitive to light and moisture.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	Acetic acid produced during cure may irritate eyes, nose and throat. 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 damage.
Ingestion:	Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Silica, amorphous, treated	None	No Target Organs
3-[tris(acetoxy)silyl]propyl methacrylate	None	Irritant, Allergen
Methylsilanetriyl triacetate	None	Irritant, Allergen
Triacetoxymethylsilane	None	No Target Organs
1,3-Bis(3-methacryloxypropyl)-1,1,3,3-tetraacetoxydisiloxane	None	No Data
acetic acid	Oral LD50 (Rabbit) = 1,200 mg/kg Oral LD50 (Mouse) = 4,960 mg/kg Oral LD50 (Rat) = 3.53 g/kg Oral LD50 (Rat) = 3.31 g/kg Dermal LD50 (Rabbit) = 1,060 mg/kg Inhalation LC50 (Rat, 4 h) = > 16000 ppm	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney
Acetic anhydride	Oral LD50 (Rat) = 1,780 mg/kg Dermal LD50 (Rabbit) = 4,000 mg/kg	Allergen, Corrosive, Irritant, Respiratory
dibutyltin dilaurate	Oral LD50 (Rat) = 175 mg/kg	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silica, amorphous, treated	No	No	No
3-[tris(acetoxy)silyl]propyl methacrylate	No	No	No
Methylsilanetriyl triacetate	No	No	No
Triacetoxymethylsilane	No	No	No
1,3-Bis(3-methacryloxypropyl)-1,1,3,3-tetraacetoxydisiloxane	No	No	No
acetic acid	No	No	No
Acetic anhydride	No	No	No
dibutyltin dilaurate	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

Exceptions:	None
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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:	Immediate Health, Delayed Health
CERCLA/SARA Section 313:	None above reporting de minimis.
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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

This safety data sheet contains changes from the previous version in sections: 2,3,8,9,11,16

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