



Revision Number: 005.0

Issue date: 06/23/2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE SI 5109 RD known as LOCTITE® Tile Bond Red High Te	IDH number:	229904
Product type/use:	Silicone	Item number:	19163
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

DANGER: CAUSES SKIN IRRITATION.
CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	Wash affected area thoroughly after handling. 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 occurs: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
Disposal:	Not prescribed

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*
Dimethyl polysiloxane	63148-62-9	10 - 30
Amorphous fumed silica	68611-44-9	10 - 30
Methylsilanetriyl triacetate	4253-34-3	1 - 5
Diiron trioxide	1309-37-1	1 - 5
Triacetoxyethylsilane	17689-77-9	1 - 5
tetraethyl silicate	78-10-4	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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion:	Do not induce vomiting. If symptoms develop and persist, get medical attention.
Symptoms:	See Section 11.
Notes to physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Prevent inhalation of fumes and gases. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Silica mist. Formaldehyde. Acrid smoke and fumes. Irritating organic vapours.

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

7. HANDLING AND STORAGE

Handling:	Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Storage:	Keep container closed. 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
Dimethyl polysiloxane	None	None	None	None
Amorphous fumed silica	3 mg/m ³ TWA Respirable particles. 10 mg/m ³ TWA Inhalable particles.	0.8 mg/m ³ TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m ³ TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 MPPCF TWA Respirable fraction.	None	None
Methylsilanetriyl triacetate	None	None	None	None
Diiron trioxide	5 mg/m ³ TWA Respirable fraction.	10 mg/m ³ PEL Fume. 50 MPPCF TWA Total dust. 5 mg/m ³ TWA Respirable fraction. 15 mg/m ³ TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None
Triacetoxylethylsilane	None	None	None	None
tetraethyl silicate	10 ppm TWA	100 ppm (850 mg/m ³) PEL	None	None

Engineering controls:

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

Respiratory protection:

No personal respiratory protective equipment normally required. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields. Safety showers and eye wash stations should be available.

Skin protection:

Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Red
Odor:	Acetic acid
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	< 10 mm hg (68 °F (20°C))
Boiling point/range:	Not available.
Melting point/ range:	Not available.
Specific gravity:	1.01 at 20 °C (68°F)
Vapor density:	Heavier than air.
Flash point:	> 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower:	4 % (acetic acid)
Flammable/Explosive limits - upper:	19.9 % (acetic acid)
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Not soluble. Polymerizes in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	2.74 %; 27.86 g/l
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Acetic acid is liberated slowly upon contact with moisture. Formaldehyde. Oxides of carbon. Oxides of silicon.
Incompatible materials:	Acids. Bases. Oxidizing agents. Water
Reactivity:	Not available.
Conditions to avoid:	Exposure to moisture. Prolonged heating at temperatures above 150 °C.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation:	Acetic acid produced during cure may irritate eyes, nose and throat.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Dimethyl polysiloxane	None	Irritant
Amorphous fumed silica	None	No Target Organs
Methylsilanetriyl triacetate	None	Irritant, Allergen
Diiron trioxide	None	Allergen, Cardiac, Central nervous system, Irritant, Kidney, Liver, Lung
Triacetoxylethylsilane	None	No Target Organs
tetraethyl silicate	Inhalation LC50 (Rat, 4 h) = > 5.03 mg/l Inhalation LC50 (Rat, 4 h) = > 16.8 mg/l Inhalation LC50 (Rat, 4 h) = 10 mg/l Inhalation LC50 (Mouse, 4 h) = > 1000 ppm	Central nervous system, Irritant, Kidney, Liver, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Dimethyl polysiloxane	No	No	No
Amorphous fumed silica	No	No	No
Methylsilanetriyl triacetate	No	No	No
Diiron trioxide	No	No	No
Triacetoxylethylsilane	No	No	No
tetraethyl silicate	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. Cured rubber can be incinerated or landfilled following EPA and local regulations.

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 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 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/NDL 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: 2,3,8,11,13,15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 06/23/2022

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.