



Revision Number: 003.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite(R) 5248 Nuva-Sil(R) Medical Device Sealant	IDH number:	92337
Product type:	Silicone sealant	Item number:	19987
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	Region:	United States
		Contact information:	Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Viscous, Liquid	HEALTH:	*2
Color:	Off white	FLAMMABILITY:	1
Odor:	Slight, Alcoholic	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of vapors from uncured sealant may cause respiratory tract irritation. Overexposure to methanol formed during cure may cause drowsiness, nausea, and vomiting. 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: Prolonged or repeated contact with uncured sealant may cause skin irritation.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: Not expected under normal conditions of use. Contains material that may be slightly toxic.

Existing conditions aggravated by exposure: None known

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Substituted Polysiloxane	Proprietary	60 - 100
Treated fumed silica	67762-90-7	10 - 30
Silane derivative	Proprietary	1 - 5
Photoinitiator	Proprietary	1 - 5

Exposure to moisture during cure will release 0.1 - 0.9% methanol.

4. FIRST AID MEASURES

Inhalation:	If symptoms develop and persist, get medical attention. Move to fresh air in case of accidental inhalation of vapours or decomposition products.
Skin contact:	If skin irritation persists, call a physician. Wash with soap and water. Wipe off paste with paper towel or cloth.
Eye contact:	If eye irritation persists, consult a specialist. Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion:	Prevent vomiting if possible. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	> 93.3 °C (> 199.94 °F) Tagliabue closed cup
Autoignition temperature:	Not applicable
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
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. 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:	Place scrap material in a well ventilated area and allow to cure to rubber. Maintain good ventilation for large spills. Scrape up as much material as possible.

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.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Substituted Polysiloxane	None	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Silane derivative	None	None	None	None
Photoinitiator	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

Physical state: Viscous, Liquid
Color: Off white
Odor: Slight, Alcoholic
Odor threshold: Not available
pH: Not applicable
Vapor pressure: < 10 mm hg (21.1 °C (70°F))
Boiling point/range: Not applicable
Melting point/ range: Not available
Specific gravity: 1.05 at 20 °C (68°F)
Vapor density: Not available
Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup
Flammable/Explosive limits - lower: Not applicable
Flammable/Explosive limits - upper: Not applicable
Autoignition temperature: Not applicable
Evaporation rate: Not available
Solubility in water: Polymerises in presence of water.
Partition coefficient (n-octanol/water): Not available
VOC content: 1.95 %; 20.47 g/l ASTM D5403 Process volatiles
1.8 %; 18.9 g/l (process)
3.75 %; 39.37 g/l (total)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Contact with water liberates methanol. Formaldehyde.

Incompatible materials: Acids. Bases. Oxidizing agents. Heat, sunlight, or UV light.

Conditions to avoid: Product is sensitive to light and moisture.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Substituted Polysiloxane	No	No	No
Treated fumed silica	No	No	No
Silane derivative	No	No	No
Photoinitiator	No	No	No

Hazardous components	Health Effects/Target Organs
Substituted Polysiloxane	No Records
Treated fumed silica	Irritant
Silane derivative	Irritant, Allergen
Photoinitiator	Irritant

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Cured rubber can be incinerated or landfilled following EPA and local regulations.

Hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12(b) Export Notification:

None above reporting de minimus

CERCLA/SARA Section 302 EHS:

None above reporting de minimus

CERCLA/SARA Section 311/312:

Immediate Health

CERCLA/SARA 313:

None above reporting de minimus

California Proposition 65:

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.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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