Material Safety Data Sheet

Revision Number: 001.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **LOCTITE® 5240™ NUVA-SIL® MEDICAL DEVICE ADHESIVE LIGHT CURE ADHESIVE**

IDH number: 1010320

Product type: Silicone Sealant

Item number: 1010320

Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:	Liquid	**HEALTH:**	*2
Color:	Yellow Green	**FLAMMABILITY:**	1
Odor:	Pine	**PHYSICAL HAZARD:**	0
		Personal Protection:	See MSDS Section 8

WARNING: REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.
PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT 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. 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: May cause allergic skin reaction. 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.

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	%
Siloxanes and Silicones, di-Me, hydroxy-terminated	70131-67-8	60 - 100
Acrylate monomer	Proprietary	10 - 30
Silica, amorphous, treated	68909-20-6	5 - 10
Trimethoxyvinylsilane	2768-02-7	1 - 5
Substituted Silane	Proprietary	1 - 5

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 symptoms develop and persist, get medical attention. Wipe off paste with paper towel or cloth. Wash with soap and water.
Eye contact:	If eye irritation persists, consult a specialist. Flush eye(s) immediately with plenty of water.
Ingestion:	Do not induce vomiting. If symptoms develop and persist, get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	> 93.00 °C (> 199.4 °F)
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 silicon. Formaldehyde. Oxides of carbon.

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:	Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber. 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
Siloxanes and Silicones, di-Me, hydroxy-terminated	None	None	None	None
Acrylate monomer	None	None	None	None
Silica, amorphous, treated	10 mg/m3 TWA Inhalable dust.	6 mg/m3 TWA	None	None
Trimethoxyvinylsilane	None	None	None	None
Substituted Silane	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: Liquid
Color: Yellow Green
Odor: Pine
Odor threshold: Not available
pH: Not applicable
Vapor pressure: < 10.0 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: > 93.00 °C (> 199.4 °F)
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: 2 %; 20 g/l ASTM D5403 Process volatiles

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: None under normal processing.

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

Incompatible materials: Bases. Oxidizing agents. Acids. 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)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No	No	No
Acrylate monomer	No	No	No
Silica, amorphous, treated	No	No	No
Trimethoxyvinylsilane	No	No	No
Substituted Silane	No	No	No

Hazardous components	Health Effects/Target Organs
Siloxanes and Silicones, di-Me, hydroxy-terminated	No Target Organs
Acrylate monomer	Irritant, Allergen
Silica, amorphous, treated	No Target Organs
Trimethoxyvinylsilane	Irritant, Allergen
Substituted Silane	Irritant, Allergen

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, Delayed Health
CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

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.
WHMIS hazard class:	D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Not available

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