



Revision Date: 09/23/2008 Issue date: 09/23/2008

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Loctite(R) Nuva-Sil(R) 5091 Self-Leveling UV Product name: Item No.:

Silicone Potting Compound

Product type: Silicone

Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

17412 / IDH No. 135257

Region: **United States**

Contact Information: Telephone: (860) 571-5100

Emergency telephone: (860) 571-5100

Internet: www.henkelna.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Silicone Resin Proprietary	<u>%</u> 60-100	ACGIH TLV None	OSHA PEL None	<u>OTHER</u> None
Silicone Resin Proprietary	5-10	None	None	None
Treated fumed silica 67762-90-7	1-5	10mg/m³ Inhalable fraction, 3mg/m³ Respirable fraction, TWA	5mg/m³ Respirable dust, 15mg/m³ Total dust	None
Silane Derivative Proprietary	1-5	None	None	None
Photoinitiator Proprietary	1-5	None	None	None
Dibutoxydiacetoxysilane 13170-23-5	1-5	None	None	None

Exposure to moisture during cure will release 1-5% acetic acid.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Viscous liquid HEALTH: 2* FLAMMABILITY: Color: Opaque 1 Odor: Acetic Acid PHYSICAL HAZARD: 0 **Personal Protection:** See Section 8

CAUTION: PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE,

SKIN AND RESPIRATORY TRACT IRRITATION.

REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin contact, Eye contact, Inhalation, Ingestion

Potential Health Effects

Item No.: 17412 / IDH No. 135257 Product name: Loctite(R) Nuva-Sil(R) 5091 Self-Leveling UV Silicone Potting

Compound

Inhalation: Acetic acid produced during cure may irrritate 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 limt.

Skin contact: Prolonged or repeated contact with uncured sealant may cause skin irritation.

Eye contact: Uncured product irritates the eyes.

Ingestion: Not a relevant route of exposure. Not expected to be harmful by ingestion.

Existing conditions aggravated by

exposure:

None generally recognized.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If discomfort persists seek medical attention.

Skin contact: Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a

physician.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a

specialist.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms develop and persist.

Notes to physician: None.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93°C (200°F)

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not applicable

Flammable/Explosive limits-upper %: Not applicable

17412 / IDH No. 135257

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: None

Unusual fire or explosion hazards: None

Item No.:

Hazardous combustion products: Oxides of carbon. Oxides of silicon. Formaldehyde. Acetic Acid Silica Mist.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after

handling. Do not handle contact lenses until all sealant has been removed from hands. Residual

sealant may transfer to lenses and cause eye irritation.

Storage: Store in a dry area below 90° F

Incompatible products: Keep away from strong oxidizing agents, strong Lewis or mineral acids. Avoid contact with water.

Avoid exposure to light

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation, especially in confined areas.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous liquid Color: Opaque Odor: Acetic Acid

Less than 10 mm Hg at 21.1 °C (70°F) Vapor pressure:

Not applicable pH: Boiling point/range: Not applicable Melting point/range: Not applicable 1.1

Specific gravity: Vapor density:

Heavier than air **Evaporation rate:** Not available

Solubility in water: Polymerizes in presence of water Not available

Partition coefficient (n-octanol/water):

Item No.:

VOC content: ASTM D5403 Process volatiles 2.22 %, 24.42 grams/liter; Potential volatiles 1.56 %, 17.16 grams/liter;

Total volatiles 3.78 %, 41.58 grams/liter.

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

17412 / IDH No. 135257

Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Formaldehyde. Acetic acid is liberated slowly upon contact with

moisture.

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

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

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Product name: Loctite(R) Nuva-Sil(R) 5091 Self-Leveling UV Silicone Potting Compound

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silicone Resin Proprietary	No	No	No
Silicone Resin Proprietary	No	No	No
Treated fumed silica 67762-90-7	No	No	No
Silane Derivative Proprietary	No	No	No
Photoinitiator Proprietary	No	No	No
Dibutoxydiacetoxysilane 13170-23-5	No	No	No

<u>Literature Referenced Target Organ & Other Health Effects</u>

Hazardous components	Health Effects/Target Organs	
Silicone Resin	No Target Organs	
Proprietary		
Silicone Resin Proprietary	Irritant	
Treated fumed silica 67762-90-7	Irritant	
Silane Derivative Proprietary	Allergen, Irritant	
Photoinitiator Proprietary	Irritant	
Dibutoxydiacetoxysilane 13170-23-5	Allergen, 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, groundwater, 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.

EPA 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:
Identification number:
Packing group:
None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated Hazard class or division: None

Item No.: 17412 / IDH No. 135257

Product name: Loctite(R) Nuva-Sil(R) 5091 Self-Leveling UV Silicone Potting
Compound

Identification number:NonePacking group:None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated

Hazard class or division:
Identification number:
Packing group:
Marine pollutant:
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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.

CERCLA/SARA Section 311/312: Immediate Health Hazard

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

Item No.:

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the 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: 2,3,5,8,10

Prepared by: Regulatory Affairs

17412 / IDH No. 135257

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation 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 of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

Product name: Loctite(R) Nuva-Sil(R) 5091 Self-Leveling UV Silicone Potting
Compound