

Novagard Solutions®

SAFETY DATA SHEET

RTV 800-270 SILICONE CONFORMAL COATING

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1 PRODUCT NAME:** RTV 800-270
- 1.2 GENERIC DESCRIPTION:** Silicone conformal coating
- 1.3 MANUFACTURED BY:** **Novagard Solutions®**
5109 Hamilton Avenue
Cleveland, OH 44114
216-881-8111
- 1.4 COMPANY WEB SITE:** www.novagard.com
- 1.5 EMERGENCY PHONE NUMBER:** CHEMTREC 800-424-9300 (24 hour)
- 1.6 EMAIL ADDRESS:** techsolutions@novagard.net

SECTION 2 – HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE

This product is not hazardous according to OSHA standards.

Flammable Liquid Category 4 / Acute Toxicity Category 5 / Skin Irritation Category 3

2.2 LABELING ELEMENTS

Warning

H227: Combustible Liquid
H333: May be harmful if inhaled
H303: May be harmful if swallowed
H316: Causes mild skin irritation

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 ACCORDING TO EU DIRECTIVES 67/548/EEC AND 1999/45/EC and (EC) 1272/2008

COMPONENT	CAS No.	WT %	EINECS NUMBER	REACH REGISTRATION
Vinyl Oximino Silane	2224-33-1	4-8%	218-747-8	Yes
2-Hydroxy-2methyl-phenylpropane	7473-98-5	< 2.0%	231-272-0	Yes
Dibutyl tin dilaurate	77-58-7	< 0.2%	201-039-8	Yes

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SECTION 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

- Eye:** Contact with the eyes may cause temporary irritation. Flush eyes with copious amounts of water for a minimum of 15 minutes. If chronic irritation develops contact a physician.
- Skin:** Contact with skin may cause irritation. Wash contacted areas with soap and water.
- Oral:** If ingested do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA** Water, CO₂, Dry Chemical, Foam.
- 5.2 HAZARDS DURING FIRE FIGHTING:** None known

HAZARDOUS COMBUSTION PRODUCTS:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

5.3 SPECIAL PROTECTIVE EQUIPMENT/PROCEDURES:

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear proper protective equipment.

6.2 Environmental precautions:

Do not allow large quantities to enter drains or surface waters.

6.3 Methods and materials for containment and cleaning up:

Disposal of collected product, residues and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Scrape up and contain for salvage or disposal. Wash all walking surfaces with detergent and water to reduce slipping hazard. Observe all personal and protection equipment recommendations described in Section 5 and 8. Local, state and federal reporting requirements may apply to spills or releases of this matter into the environment. See applicable regulatory compliance information in Section 15.

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SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS Keep container closed when not in use.

7.1 Advice on safe handling:

Avoid eye contact. General ventilation is recommended. Do not empty into drains.

7.2 Advice on storage:

Do not store with oxidizing agents.

7.3 Specific uses:

Refer to technical data sheet available on request.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Local exhaust: Recommended General ventilation: Recommended Eyewash stations: Recommended

8.2 PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

Eye Protection:	Use proper protection - safety glasses as a minimum
Skin Protection:	Wash after any contact. Chemical protective gloves are recommended
Respiratory Protection:	Not required for properly ventilated areas. If high levels of vapor or mist should accumulate, use NIOSH approved respirator with organic vapor cartridge

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.3 Comments

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control exposure within guidelines (see Section 2) or use respiratory protection. Product evolves alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 guidelines. Respiratory protection should be considered for exposures resulting from unusual tasks and/or use in non-ventilated areas.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:	79.5°C (Pensky-Martin Close Cup Method)	
Flammability Limits in Air	Upper - Not Determined	Lower - Not Determined
Physical form	Hazy liquid	
Odor:	slight sulfur smell	
Specific Gravity @25°C:	1.00	
Boiling Point (@ 760 mm Hg)	Not applicable	
Freezing/melting point	Not applicable	
Vapor pressure:	Not applicable	
Evaporation rate:	Not applicable	
Volatile content:	Not applicable	
Odor threshold	Not applicable	
VOC (EPA method 24):	<25 gm/l	Percent Volatile by volume: <0.5%
Solubility in water:	< 1.0%	
Solubility in organic solvent:	Mineral spirits	

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable
Hazardous polymerization:	Will not occur
Conditions to avoid:	None known
Materials to avoid:	None known
Conditions to avoid:	None known
Hazardous thermal decomposition and combustion by-products:	Carbon monoxide, carbon dioxide, silicon dioxide, and formaldehyde

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY

Acute oral LD 50 (rat)	>2000 mg/kg (crosslinker component)
Acute dermal LD50 (rabbit)	1000-1800 mg/kg (MEKO)
Acute inhalation LC 50 (mg/L)	>4.8 mg/l @ 4H time (MEKO)
On Contact Eye:	May irritate eyes
On Contact with Skin:	May cause mild skin irritation
On Inhalation:	Not anticipated during industrial use
Oral:	Not anticipated during industrial use

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SECTION 11 - TOXICOLOGICAL INFORMATION (continued)

11.2 CRONIC TOXICITY

Carcinogens: This product does not contain any ingredients listed by IARC, NTP or OSHA as chemical carcinogens.
Teratogens: None known
Mutagens: None known
Reproductive Toxins: None known

SECTION 12 - ECOLOGICAL INFORMATION

12.1 ECOTOXICITY EFFECTS

Mixture is toxic to aquatic organisms.

12.2 PERSISTANCE AND DEGRADABILITY

Solid material that is insoluble in water. The products of degradation are less toxic than the product itself.

12.3 BIOACCUMULATION

No bioaccumulation data is available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal method: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14 - TRANSPORTATION INFORMATION

Not Regulated for domestic transport

DOT shipping name:	Combustible Liquid	DOT hazard class:	Class 3
DOT labels:	Combustible Liquid	UN/NA number:	none

UNRTDG:	Not regulated as a dangerous good
ITATA-DGR:	Not regulated as a dangerous good
IMDG:	Code not regulated as a dangerous good

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SECTION 15 - REGULATORY INFORMATION

15.1 INVENTORY STATUS

All chemical substances found in this product comply with the (TSCA) reporting requirements

All chemical components found in this product are listed, exempt or notified via EINECS (ELINCS)

AICS: All components listed, exempt or notified

DSL: All components listed, exempt or notified

SECTION 15 - REGULATORY INFORMATION (continued)

15.2 EPA SARA Title III Chemical Listings:

40 CFR 355 Section 302

Extremely Hazardous Substance List:

None found

Section 312, 311 Hazard Class:

None

40 CFR 372.65 Section 313 Toxic Chemical List:

None found

Hazard Rating System:

HMIS: Flammability 1, Reactivity 0, Health 1

NFAPA: Flammability 1, Reactivity 0, Health 1

California Proposition 65: None

SECTION 16 - OTHER INFORMATION

REVISED: 06-24-2015

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations. It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Novagard Solutions product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Novagard Solutions Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Novagard Solutions shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Novagard Solutions supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Novagard Solutions supplier. Source of information: Internal data and publically available information