

# Novagard Solutions™

## MATERIAL SAFETY DATA SHEET

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RTV 200 Series

**INCLUDES:** RTV 200-202, RTV 200-250, RTV 200-251,  
RTV 200-252, RTV 200-257, RTV 200-260,  
RTV 200-306

**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](http://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
Silica, amorphous	68611-44-9	0-15	271-893-4	Yes
Methyl Oximino Silane	22984-54-9	0-5	245-366-4	Yes
Tetra Oximino Silane	34206-40-1	0-0.5	251-882-0	Yes
Toluene	108-88-3	0-0.5	203-635-9	Yes
Vinyl Oximino Silane	2224-33-1	0-4	218-747-8	Yes
Aminopropyltriethoxysilane	919-30-2	0-2	213-048-4	Yes
Dibutyl tin dilaurate	77-58-7	< 0.2%	201-039-8	Yes

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### SECTION 4 - FIRST AID MEASURES

#### 4.1 PRECAUTIONARY STATEMENTS

P264: Wash thoroughly after handling

P312: Call a doctor if you fell unwell

P332: If skin irritation occurs get medical attention

**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, CO<sub>2</sub>, Dry Chemical, Foam.

**5.2 SPECIAL FIRE FIGHTING PROCEDURES** None

#### 5.3 HAZARDOUS DECOMPOSITION PRODUCTS

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300° F and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.

### SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS** Keep container closed when not in use. Avoid contact with skin and eyes.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

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

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### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### 8.2 PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING

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

#### 8.3 MISCELLANEOUS INFORMATION

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.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

### SECTION 10 - STABILITY AND REACTIVITY

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

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### 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 LC50 (rat)	>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

#### 11.2 CRONIC TOXICITY

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

### SECTION 12 - ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY EFFECTS

Mixture is not 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: Disposal should be made in accordance with federal, state and local regulations.

### 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

**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:** 06-26-2015

The information presented in this Safety Data Sheet relates only to the specific product designated herein, and no warranty, or guarantee, either expressed or implied is made regarding the performance and conditions of this product. This information is based upon information that Novagard believes to be true and accurate; however, it is the responsibility of each user to review this information within the specific context of their intended application.