



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: RTV Silicone Red (cartridge)

Product Number (s): 14075

Product Use: Sealant and adhesive

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

WARNING: Uncured product may irritate eyes.

Appearance & Odor: Red paste, slight odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: Direct contact irritates slightly with redness and swelling.

SKIN: A single short term exposure may irritate. Repeated prolonged contact may irritate moderately. Product contains oximes which are possible skin sensitizers.

INHALATION: Vapor exposure may cause drowsiness, injure blood system or liver, and may irritate eyes, nose and throat.

INGESTION: Low ingestion hazard in normal use. Repeated ingestion or swallowing of large amounts may injure internally.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/ Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydroxy-terminated polydimethylsiloxane	70131-67-8	> 60
Polydimethylsiloxane	63148-62-9	15 – 16
Amorphous fumed silica	112945-52-5	8 – 10
Methyl Oximino Silane	22984-54-9	4 – 5
Vinyl Oximino Silane	2224-33-1	2 – 3
Iron oxide	1332-37-2	1 – 5

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove product from skin and immediately flush with water for 15 minutes. Remove contaminated clothing. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Get medical attention.

Note to Physicians: Treat according to person's condition and specifics of exposure

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is non-flammable.

Flash Point:	None	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Fire and Explosion Data:

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Dry chemical, foam or water spray may be appropriate.

Products of Combustion: Carbon oxides and traces of incompletely burned carbon compounds.

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: For small spills, wipe up or scrape up material and package for disposal. For

large spills, ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Final cleaning may require the use of steam, solvents or detergents.

Section 7: Handling and Storage

Handling Procedures: Use adequate ventilation. Product evolves methyl ethyl ketoxime when exposed to water or humid air. Avoid breathing vapors. Avoid eye and skin contact. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep container closed and store away from water or moisture.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydroxy-terminated polydimethylsiloxane	NE	NE	NE	NE	NE		
Polydimethylsiloxane	NE	NE	NE	NE	NE		
Amorphous fumed silica	NE	NE	NE	NE	NE		
Methyl Oximino Silane	NE	NE	NE	NE	NE		
Vinyl Oximino Silane	NE	NE	NE	NE	NE		
Iron oxide	10	NE	5	NE	NE		mg/m ³
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Acetic acid is formed upon contact with water or humid air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: Methyl ethyl ketoxime is formed upon contact with water or moisture in the air. Provide adequate ventilation to control exposures to within the exposure guideline of 2 ppm (TWA). If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as Silver Shield® or 4H®. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Paste
Color: Red
Odor: Slight
Odor Threshold: ND
Specific Gravity: 1.05
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: negligible
Vapor Density: > 1 (air = 1)
Evaporation Rate: slow
Solubility: not soluble in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: < 0.3 g/L: < 4 lbs./gal: < 0.03

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Do not expose container to temperature extremes.

Incompatible Materials: Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

Hazardous Decomposition Products: Methylethylketoxime. Thermal decomposition of this product during fire or very high heat conditions may evolve the following products: carbon oxides, hydrogen, silicon dioxide, nitrogen oxides.

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Hydroxy-terminated polydimethylsiloxane	> 15400 mg/kg	> 2 g/kg	> 8750 mg/m ³ /7H
Polydimethylsiloxane	> 5000 mg/kg	No data	> 535 mg/L
Amorphous fumed silica	3160 mg/kg	No data	No data
Methyl Oximino Silane	No data	No data	No data
Vinyl Oximino Silane	No data	No data	No data
Iron oxide	No data	No data	No data

Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Hydroxy-terminated polydimethylsiloxane	No	No	No	Unknown	Unknown
Polydimethylsiloxane	No	No	No	No	No
Amorphous fumed silica	No	No	No	Unknown	Unknown
Methyl Oximino Silane	No	No	No	Unknown	Possible
Vinyl Oximino Silane	No	No	No	Unknown	Possible
Iron oxide	No	No	No	Unknown	Unknown

<u>Reproductive Toxicity:</u>	No information available
<u>Teratogenicity:</u>	No information available
<u>Mutagenicity:</u>	No information available
<u>Synergistic Effects:</u>	No information available
<u>Other:</u>	Methyl ethyl ketoxime is formed upon contact with water or humid air. Male rodents exposed to methyl ethyl ketoxime vapor throughout their lifetime developed liver tumors.

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity:	No information available
Persistence / Degradability:	No information available
Bioaccumulation / Accumulation:	No information available
Mobility in Environment:	No information available

Section 13: Disposal Considerations

Waste Classification: Dispensed product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground):	Not regulated
ICAO/IATA (air):	Not regulated
IMO/IMDG (water):	Not regulated
Special Provisions:	None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Product Name: RTV Silicone Red (cartridge)**Product Number (s): 14075**

Section 311/312 Hazard Categories:	Fire Hazard	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:**California Safe Drinking Water and Toxic Enforcement Act (Prop 65):**

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: In states with Consumer Products VOC regulations, this product is compliant as a Sealant and Caulking Compound (chemically curing, nonaerosol).

State Right to Know:

New Jersey: 112945-52-5
Pennsylvania: 112945-52-5
Massachusetts: 112945-52-5
Rhode Island : None

Canadian Regulations:**Controlled Products Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: Not regulated

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

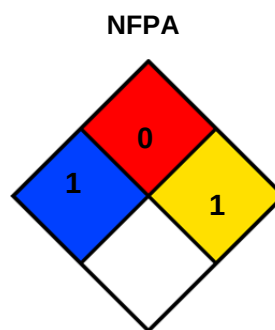
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	1
Flammability:	0
Reactivity:	1
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 14075
Revision Date: 08/22/2013

Changes since last revision: Section 3: % by weight

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substance List
g/L: grams per Liter
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
lbs./gal: pounds per gallon
LC: Lethal Concentration
LD: Lethal Dose

NA: Not Applicable
ND: Not Determined
NIOSH: National Institute of Occupational Safety & Health
NFPA: National Fire Protection Association
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PMCC: Pensky-Martens Closed Cup
PPE: Personal Protection Equipment
ppm: Parts per Million
RoHS: Restriction of Hazardous Substances
STEL: Short Term Exposure Limit
TCC: Tag Closed Cup
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Information System