

## **SAFETY DATA SHEET**

#### **Section 1: IDENTIFICATION**

#### 1.1 PRODUCT IDENTIFIER

Product Name: RTV Silicone

Product Code: Cat. No. S450

#### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Sealant

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address: Frameless Hardware Company

4361 Firestone Blvd South Gate, CA 90280

**Telephone Number:** 888-295-4531

#### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone** CHEMTREC 1-800-424-9300 (US and Canada)

Number: INTERNATIONAL + 1-703-527-3887

CCN1003004

#### Section 2: HAZARD(S) IDENTIFICATION

# 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)

Skin Irritation Category 2
Eye Irritation Category 2A
Skin Sensitization Category 1
Carcinogenicity Category 1A
Reproductive Toxicity Category 2
Specific Target Organ Toxicity – Repeated Exposure Category 2

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

#### 2.2a SIGNAL WORD:

DANGER!

#### 2.2b HAZARD STATEMENTS

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure



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#### 2.2c HAZARD PICTOGRAMS



## 2.2d PRECAUTIONARY STATEMENTS

i.	PREVENTION	Wash hands thoroughly after handling. Do not breathe vapors/fumes. Do not eat, drink or smoke while using this product. Use in a well ventilated area. Wear
		impervious gloves/protective clothing/eye protection. Obtain special instructions before use. Do not handle
		until all safety precautions have been read and understood. Contaminated work clothing must not be
		allowed out of the workplace.
ii.	RESPONSE	If on skin: Wash with plenty of water. Take off
		contaminated clothing and wash it before reuse. If skin
		irritation or rash occurs: Get medical advice/attention.
		If in eyes: Rinse cautiously with water for several
		minutes. Remove contact lenses, if present and easy to
		do. Continue rinsing. If eye irritation persists: Get
		medical advice/attention. If inhaled: Remove person to
		fresh air and keep comfortable for breathing. If
		experiencing respiratory symptoms: Call a poison
		center/doctor. If swallowed: Rinse mouth. Do NOT
		induce vomiting. Get medical advice/attention if you feel unwell.
iii.	STORAGE	Store locked up. Store in a well-ventilated place. Keep
		container tightly closed.
iv.	DISPOSAL	Dispose of contents/containers in accordance with all
		local, state, provincial, and federal regulations.

## 2.3 ADDITIONAL INFORMATION

# 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED Not Applicable

## 2.3b UNKNOWN ACUTE TOXICITY

47.6% of the mixture consists of ingredient(s) of unknown acute toxicity.

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Methyltri(ethylmethylketoxime) silane	22984-54-9	5 – 10%*
Aminoalkoxysilane	1760-24-3	0.5 – 1.5%*
Octamethylcyclotetrasiloxane	556-67-2	0.1 – 1.0%*
Crystalline Silica, Quartz***	14808-60-7	0.1 – 1.0%*



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Methanol**	67-56-1	0.0 – 2.0%*
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<sup>\*\*</sup>Methanol is not a component in the formulation of this product, however, as this product cures, methanol gas is evolved.

## **Section 4: FIRST-AID MEASURES**

#### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: get medical attention/advice. Take off contaminated clothing and wash before reuse.
Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

## 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.
Inhalation:	May cause respiratory tract irritation. May cause damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

<sup>\*\*\*</sup>Inhalation of particulates unlikely due to product's physical state.

<sup>\*</sup>Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.



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**Note to Physicians:** Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1 FLAMMABILITY**

Flammability: Not Flammable/Not Combustible by WHMIS/OSHA HAZCOM2012 Criteria

#### **5.2 EXTINGUISHING MEDIA**

#### 5.2a. Suitable Extinguishing Media:

Treat for surrounding material.

#### 5.2b. Unsuitable Extinguishing Media:

Water

#### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

#### 5.3a. Products of Combustion:

By heating and fire, harmful vapors/gases may be formed. Nitrogen Oxides(corrosive)

#### 5.3b. Explosion Data

i. Sensitivity to Mechanical Impact:

Not Available

ii. Sensitivity to Static Discharge:

Not Available

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

### **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

#### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Do not flush to sewer or allow to

enter waterways. Use appropriate Personal Protective Equipment

(PPE).



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**Methods for Cleaning-Up:** Dispose of unwanted material properly in accordance with all local,

regional, national and international regulations.

#### Section 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious gloves and eye

protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe vapors/fumes. Do not take

internally.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended

personal protection. Launder contaminated clothing before reuse.

Wash hands before eating, drinking, or smoking.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Store locked up. Keep out of the reach of children. Keep container

tightly closed. Store at room temperature and keep containers

closed when not in use.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 CONTROL PARAMETER Exposure Guidelines:

Occupational Exposure Limits			
Chemical Name	OSHA-PEL	ACGIH-TLV	
Methyltri(ethylmethylketoxime) silane	Not Available	Not Available	
Aminoalkoxysilane	Not Available	Not Available	
Octamethylcyclotetrasiloxane	Not Available	10 ppm	
Crystalline Silica, Quartz***	0.05 mg/m³	0.025 mg/m³ (Resp.)	
Methanol	200 ppm	200 ppm	

<sup>\*\*\*</sup>Inhalation of particulates unlikely due to product's physical state.

## **8.2 EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapor, etc.) below recommended exposure

limits.

#### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]



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#### ii.Skin Protection:

- 1. Hand Protection: Wear impervious gloves, such as nitrile.
- 2. Body Protection: Wear suitable protective clothing.
- **iii. Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance (physical state, color, etc.):	Opaque Paste	
Odor:	Oxime	
Odor Threshold:	Mild	
pH:	Not Available	
Melting point/Freezing point:	Not Available	
Initial boiling point and boiling range:	Not Available	
Flash point:  Not Available  Not Available		
Evaporation rate (Water=1):	Not Available	
Flammability:	Not Flammable/Not Combustible	
Upper Flammability/Explosive Limit:	Not Available	
Lower Flammability/Explosive Limit: Not Available		
Vapor Pressure	Not Available	
Vapor Density:	Not Available	
Relative Density:	1.10 – 1.20 g/mL	
Solubility in Water:	Insoluble	
Partition coefficient: n-octanol/water:	Not Available	
Partition coefficient: n-octanol/water: Auto-ignition temperature: Decomposition Temperature: Viscosity (cps): VOC Content:	Not Available Not Available Not Available Not Available Not Available <34 g/L, less water and exempt solvents	

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

#### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

### 10.3. POSSIBILITY OF HAZARDOUS REACTION

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No dangerous reaction known under conditions of normal use.

#### 10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

#### 10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents. Water and moisture.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

This product reacts with water, moisture, or humid air to evolve: Methylethylketoxime. Thermal breakdown of this product during fire or extreme heat may evolve: Carbon Oxides, Silicon Dioxide, Nitrogen Oxide, Formaldehyde.

#### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

#### 11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

**Eye Contact:** Causes serious eye irritation. Symptoms may include discomfort

or pain, excess blinking and tear production, with marked redness

and swelling of the conjunctiva.

Skin Contact: Causes skin irritation. Handling can cause dry skin, discomfort,

irritation, and dermatitis. May cause an allergic skin reaction.

**Inhalation:** May cause respiratory tract irritation. May cause damage to

organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a

serious disabling and fatal lung disease.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort

and/or distress, nausea or vomiting.

Acute Toxicity(ATE <sub>mix</sub> = 3,245 mg/kg)			
Chemical Name	LC50	LD50	
Methyltri(ethylmethylketoxime) silane	Not Available	Oral: >2,000 mg/kg, rat	
Aminoalkoxysilane	Not Available	Oral: >7,500 mg/kg, rat	
Octamethylcyclotetrasiloxane	Not Available	Oral: >4,800 mg/kg, rat	
Crystalline Silica, Quartz	Not Available	Oral: >10,000 mg/kg, rat	

Carcinogenicity		
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)	
Methyltri(ethylmethylketoxime) silane	Not Listed	
Aminoalkoxysilane	Not Listed	
Octamethylcyclotetrasiloxane	Not Listed	
Crystalline Silica, Quartz	N-2, I-1, O-1, ACGIH-A2, CP65	



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## 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM		
Skin Corrosion/Irritation:	Causes skin irritation	
Serious Eye Damage/Irritation:	: Causes serious eye irritation	
Respiratory Sensitization:	Not Classified	
Skin Sensitization:	May cause an allergic skin reaction	
STOT-Single Exposure:	May cause respiratory irritation	
Aspiration Hazard: Not Classified		
LONG-TERM		
Carcinogenicity:	May cause cancer	
Germ Cell Mutagenicity:	Not Classified	
Reproductive Toxicity:	Suspected of damaging fertility or the unborn child	
STOT-Repeated Exposure:	May cause damage to organs through prolonged or repeated	
STOT-Repeated Exposure:	exposure	
Synergistic/Antagonistic Effects:	Not Classified	

## **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

<b>Ecotoxicity</b>			
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours	
Methyltri(ethylmethylketoxime) silane	Not Available	Not Available	
Aminoalkoxysilane	81 mg/L, Daphnia magna	597 mg/L, Brachydanio rerio	
Octamethylcyclotetrasiloxane	Not Available	Not Available	
Crystalline Silica, Quartz	Not Available	Not Available	

#### 12.2. PERSISTENCE AND DEGRADABILITY

Not Available

#### 12.3. BIOACCUMULATIVE POTENTIAL

Not Available

#### 12.4. MOBILITY IN SOIL

Not Available

#### 12.5. OTHER ADVERSE EFFECTS

Not Available

## **Section 13: DISPOSAL CONSIDERATIONS**

## 13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

## 13.2. OTHER DISPOSAL CONSIDERATIONS

Not Available



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## **Section 14: TRANSPORT INFORMATION**

DOT (U.S.)	TDG (CANADA)	IATA
UN NUMBER:	UN NUMBER:	UN NUMBER:
Not Regulated	Not Regulated	Not Regulated
UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:
Not Regulated	Not Regulated	Not Regulated
TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):
Not Regulated	Not Regulated	Not Regulated
PACKING GROUP (if applicable):	PACKING GROUP (if applicable):	PACKING GROUP (if applicable):
Not Regulated	Not Regulated	Not Regulated

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

#### 14.1. ENVIRONMENTAL HAZARDS

Not Available

# 14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not Available

#### 14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

## **Section 15: REGULATORY INFORMATION**

# 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Canada:** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

**US:** SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012

#### 15.2. US FEDERAL INFORMATION:

	SARA TITLE III			
CHEMICAL NAME	SECTION 302	SECTION 304	CERCLA	SECTION
OTENIOAL NAME	(EHS) TPQ (LBS)	EHS RQ (LBS)	RQ (LBS)	313 (TRI)
Methyltri(ethylmethylketoxime) silane	Not Listed	Not Listed	Not Listed	Not Listed
Aminoalkoxysilane	Not Listed	Not Listed	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	Not Listed	Not Listed	Not Listed	Not Listed
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed



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## 15.3. US STATE RIGHT TO KNOW LAWS:

California Proposition 65:	<b>WARNING:</b> This product can expose you to chemicals including methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
Other U.S. States "Right to Know" Lists:	Poly(Dimethylsiloxane): CAS#70131-67-8 Dimethyl siloxane: CAS#63148-62-9 Methyltri(ethylmethylketoxime) silane: CAS#22984-54-9 Aminoalkoxysilane: CAS#1760-24-3 Octamethylcyclotetrasiloxane: CAS#556-67-2 Crystalline Silica, Quartz: CAS#14808-60-7

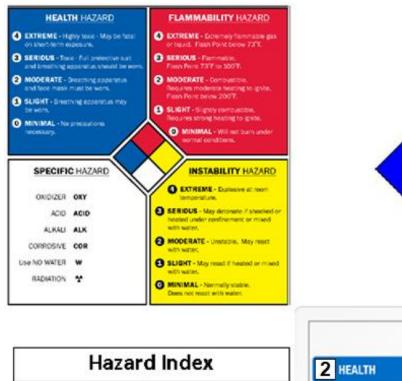
#### 15.4. GLOBAL INVENTORIES

Chemical Name	USA TSCA	Canada DSL/NDSL
Methyltri(ethylmethylketoxime) silane	Yes	DSL
Aminoalkoxysilane	Yes	DSL
Octamethylcyclotetrasiloxane	Yes	DSL
Crystalline Silica, Quartz	Yes	DSL

## 15.5. NFPA AND HMIS RATINGS:

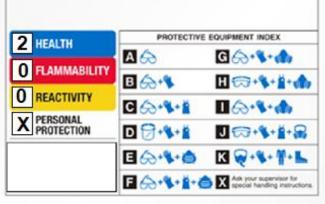


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ļ	NFPA
2	0
	HMIS

Hazard Index	
4	Severe Hazard
3	Serious Hazard
2	Moderate Hazard
1	Slight Hazard



#### 15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65	
OSHA (O)	Occupational Safety and Health Administration	
ACGIH (G)	American Conference of Governmental Industrial Hygienists	
	A1 – Confirmed human carcinogen	
	A2 – Suspected human carcinogen	
	A3 – Animal carcinogen	
	<ul> <li>A4 – Not classifiable as a human carcinogen</li> </ul>	
	A5 – Not suspected a human carcinogen	
IARC (I)	International Agency for Research on Cancer	
	<ul> <li>1 – The agent (mixture) is carcinogenic to humans</li> </ul>	
	<ul> <li>2A – The agent (mixture) is probably carcinogenic to humans;</li> </ul>	
	there is limited evidence of carcinogenicity in humans and	
	sufficient evidence of carcinogenicity in experimental animals.	



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	2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.  The agent (mixture, expecting sirety metapos) is not closeifiable.
	<ul> <li>3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> </ul>
	<ul> <li>4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
NTP (N)	National Toxicology Program
	<ul> <li>1 – Known to be carcinogens</li> </ul>
	<ul> <li>2 – Reasonably anticipated to be carcinogens</li> </ul>

## **Section 16: OTHER INFORMATION**

**Date of Preparation:** June 28, 2019

Version: 1.1

Revision Date: July 1, 2020

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

**Prepared by:** Frameless Hardware Company

Phone: 888-295-4531

**End of Safety Data Sheet**