

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Document: RTV-2-01 Date of issue: 07/17/2019 Supersedes Release Date: 5/20/13 Version: 1.0 **SECTION 1: Identification** 1.1. Identification Product form : Mixture Product name : RTV-2 and RTV-3 1.2. Recommended use and restrictions on use Use of the substance/mixture : For use as a sealant compound in heat tracing and various other applications. Uncured product is a viscous paste. Product cures slowly upon exposure to air or more rapidly upon exposure to heat. Product is packaged in 0.5 oz (14.8 mL) tube 1.3. Supplier Thermon Manufacturing Company 100 Thermon Drive San Marcos, TX 78667 - USA T 1(800) 820-4328 or 1 (512) 396-5801 1.4. Emergency telephone number

Emergency number

: 1 (713) 205-2690 (24 hours) Alternate: National Poison Control Center: 1 (800) 222-1222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1B H314 Carc. 2 H351 Repr. 2 H361

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) Signal word (GHS US) : Danger Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage H351 - Suspected of causing cancer H361 - Suspected of damaging fertility or the unborn child Precautionary statements (GHS US) P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe spray, vapors. P264 - Wash hands, forearms and face, clothing thoroughly after handling. P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - If exposed or concerned: Get medical advice/attention. P310 - Immediately call a doctor P321 - Specific treatment (see first aid instructions on this label) P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Distillates, petroleum, hydrotreated middle	(CAS-No.) 64742-46-7	3 - 7
Silanetriol, methyl-, triacetate	(CAS-No.) 4253-34-3	1 - 5
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9	1 - 5
Titanium dioxide	(CAS-No.) 13463-67-7	< 1
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 1

SECTION 4: First-aid measures					
4.1. Description of first aid measures					
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.				
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.				
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.				
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.				
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.				
4.2. Most important symptoms and eff	ects (acute and delayed)				
Symptoms/effects	: Causes severe skin burns and eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. Suspected of causing cancer.				
Symptoms/effects after inhalation	: May cause respiratory irritation.				
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.				
Symptoms/effects after eye contact	: Causes serious eye damage.				
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.				
Chronic symptoms	: Suspected of damaging fertility. Suspected of damaging the unborn child Suspected of causing cancer.				
4.2 Immediate medical attention and					

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1.	Suitable (and unsuitable) exting	uishing media
Suital	ole extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Foam. Dry powder. Dry chemical. Alcohol-resistant foam.
Unsui	table extinguishing media	: None known.
5.2. Specific hazards arising from the chemical		e chemical
Explo	sion hazard	: Product is not explosive.
React	ivity	: By heating and fire, harmful vapors/gases may be formed.
5.3.	Special protective equipment a	nd precautions for fire-fighters
Firefighting instructions		: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting		: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION	N 6: Accidental release measures	
6.1.	Personal precautions, protective eq	uipment and emergency procedures
Genera	al measures	: Evacuate area. Do not touch or walk on the spilled product. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1.	For non-emergency personnel	
Protec	tive equipment	: Wear Protective equipment as described in Section 8.
Emerg	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protec	tive equipment	: For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters. Not	fy authorities if product enters sewers or public waters. Avoid release to the environment.
6.3.	Methods and material for containm	ent and cleaning up
For co	ntainment	: Remove all sources of ignition.
		Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal.
		Small Spills: Wipe up with absorbent material (e.g. cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for reuse.
Metho	ods for cleaning up	: Wear suitable protective clothing.
6.4.	Reference to other sections	
No addi	tional information available	
SECTION	N 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	utions for safe handling	Handle in accordance with good industrial hygiene and safety procedures. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Pregnant and breastfeeding women must not handle this product. Do not breathe mist, vapors.
7.2.	Conditions for safe storage, includin	g any incompatibilities
Storag	e conditions	 Keep container closed when not in use. Store away from incompatible materials. Store in a well- ventilated place. Keep out of reach of children. Keep away from heat and direct sunlight. Keep only in original container. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silanetriol, ethyl-, triacetate (17689-77-9)					
OSHA	Remark (OSHA) OELs not established				
ACGIH	Remark (ACGIH) OELs not established				
Silanetriol, methyl-, triacetate (4253-34-3)					
ACGIH	Remark (ACGIH) OELs not established				
OSHA	OELs not established				
Titanium dioxide (13463-67-7)					
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³			

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Titanium dioxide (13463-67-7)						
ACGIH	Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)				
ACGIH	Regulatory reference	ACGIH 2018				
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ total dust				
Distillates, petroleum, h	ydrotreated middle (64742-46-7)					
OSHA	Remark (OSHA)	OELs not established				
ACGIH Remark (ACGIH)		OELs not established				
Octamethylcyclotetrasil	Octamethylcyclotetrasiloxane (556-67-2)					
OSHA	Remark (OSHA)	OELs not established				
ACGIH Remark (ACGIH)		OELs not established				

8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



Personal protective equipment:

Protective clothing. Protective goggles. Gloves.

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Suitable gloves for this specific application can be recommended by the glove supplier. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately.

Eye protection:

Chemical resistant goggles must be worn

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chem	nical pro	perties
Physica	al state	:	Liquid
Арреа	rance	:	Red paste.
Color		:	Red
Odor		:	Acetic acid
Odor tl	hreshold	:	No data available
рН		:	No data available
Meltin	g point	:	No data available
Freezin	ng point	:	No data available
Boiling	point	:	No data available
Flash p	oint	:	141.8 °F Closed cup
Relativ	e evaporation rate (butyl acetate=1)	:	< 1
Flamm	ability (solid, gas)	:	No data available
Vapor	pressure	:	Neglible @ 25 °C
Relativ	e vapor density at 20 °C	:	> 1 Air=1
Relativ	e density	:	1.04 @ 25°C
Solubil	ity	:	Insoluble in water.
Log Po	w	:	No data available
Auto-ig	gnition temperature	:	No data available
Decom	position temperature	:	No data available
Viscosi	ty, kinematic	:	No data available
Viscosi	ty, dynamic	:	No data available
Explosi	on limits	:	No data available
Explosi	ve properties	:	No data available
Oxidizi	ng properties	:	No data available
ə.2.	Other information		

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

By heating and fire, harmful vapors/gases may be formed.

10.2. Chemical stability

Stable under normal conditions. This product reacts with water, moisture, or humid air to evolve following compounds: Acetic acid.

10.3. Possibility of hazardous reactions

Will not undergo hazardous polymerization.

10.4. Conditions to avoid

Elevated temperatures. When heated to temperatures above 150 °C (302 °F) in the presence of air, product can form formaldehyde vapors.

10.5. Incompatible materials

Strong oxidizing agents. Water and moisture.

10.6. Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon dioxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral)	: Not classified			
Acute toxicity (dermal)	: Not classified			
Acute toxicity (inhalation)	: Not classified			

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2060 mg/kg
2060 mg/kg
> 10000 mg/kg
-46-7)
7400 mg/kg
> 2000 mg/kg
1540 mg/kg
> 2400 mg/kg
> 4640 mg/kg
> 12.7 mg/kg 4h
: Causes severe skin burns and eye damage.
: Eye damage, category 1, implicit
: Not classified
: Not classified
: Not classified. Suspected of causing cancer.
2B - Possibly carcinogenic to humans
: Suspected of damaging fertility or the unborn child.
unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these findings to humans is not known. (Octamethylcyclotetrasiloxane)
: Not classified
: Not classified
: Not classified
: No data available
: Causes severe skin burns and eye damage. Suspected of damaging fertility. Suspected of damaging unborn child. Suspected of causing cancer.
: May cause respiratory irritation.
: Causes severe skin burns and eye damage.
: Causes serious eye damage.
: May cause gastrointestinal irritation.
: Suspected of damaging fertility. Suspected of damaging the unborn child Suspected of causing car

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13:	SECTION 13: Disposal considerations					
13.1. Di	isposal methods					
Waste treat	tment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.				
Product/Packaging disposal recommendations		: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.				
SECTION 14:	Transport information					

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Transportation of Dangerous Goods

Not regulated for transport

Transport by sea (IMDG)

Not regulated for transport

Air transport (IATA)

Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

RTV-2 and RTV-3

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.

RTV-2 and RTV-3		
SARA Section 311/312 Hazard Classes		Health hazard - Serious eye damage or eye irritation
		Health hazard - Reproductive toxicity
		Health hazard - Carcinogenicity

15.2. US State regulations

WARNING:

This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Titanium dioxide(13463- 67-7)	Х				Not available	

Component	State or local regulations
Titanium dioxide(13463-67-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List; U.S Massachusetts - Right To Know List

SECTION 16: Other information

Other information

: Author: JLJ.

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NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS Hazard Rating	
Health	: 3
lammability	: 1
Physical	: 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.