

# SAFETY DATA SHEET

1. Identification				
Product identifier: RTV118				
Other means of identification Synonyms:		OWABLE ACETOXY SEALANT (translucent)		
Recommended use and restriction on use Recommended use: Silicone Elastomer Restrictions on use: For industrial use only.				
Manufacturer/Importer/Distr ibutor Information	:	Momentive Performance Materials - Daytona 703 South Street New Smyrna Beach FL 32168		
Contact person	:	commercial.services@momentive.com		
Telephone	:	General information +1-800-295-2392		
Emergency telephone number Supplier	:	CHEMTREC 1-800-424-9300		

# 2. Hazard(s) identification

# **Hazard Classification**

### **Health Hazards**

Toxic to reproduction

Category 2

# **Unknown toxicity - Health**

Acute toxicity, oral	3.39 %
Acute toxicity, dermal	3.39 %
Acute toxicity, inhalation, vapor	3.39 %
Acute toxicity, inhalation, dust or mist	3.39 %

### **Label Elements**

Hazard Symbol:



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inventing possibilities

Signal Word:	Warning
Hazard Statement:	H361; Suspected of damaging fertility or the unborn child.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	IF exposed or concerned: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up. Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.
Substance(s) formed under the conditions of use:	Generates acetic acid during cure.

# 3. Composition/information on ingredients

### Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
Filler	Trade secret	10 - <20%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%	No data available.

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Trade secret information:

\*\* A specific chemical identity and/or percentage of composition has been

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withheld as a trade secret.

4. First-aid measures		
General information:	No action shall be taken involving any personal risk or without suitable training.	
Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water.	
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medica attention.	
Skin Contact:	To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. If skin irritation occurs: Get medical advice/attention.	
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	d
Most important symptoms/effec	ts, acute and delayed	
Symptoms:	No data available.	
Hazards:	No data available.	
Indication of immediate medical	l attention and special treatment needed	
Treatment:	Treatment is symptomatic and supportive.	
5. Fire-fighting measures		
General Fire Hazards:	Use standard firefighting procedures and consider the hazards of othe involved materials.	r
Suitable (and unsuitable) exting	uishing media	
Suitable extinguishing media:	All standard extinguishing agents are suitable.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	Pay attention to the corrosive effects arising from contact with water.	
Special protective equipment a	nd precautions for firefighters	
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool.	
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**Special protective equipment** 

### RTV118

Firefighters must wear NIOSH/MSHA approved positive pressure self-

for fire-fighters:	contained breathing apparatus with full face mask and full protective clothing.
6. Accidental release measur	es
Personal precautions, protective equipment and emergency procedures:	Product releases acetic acid during application and curing. Use only in well- ventilated areas. Avoid contact with skin and eyes. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

<b>Notification Procedures:</b> ELIMINATE all ignition sources (no smoking, flares, sparks or flame immediate area). See Section 8 of the SDS for Personal Protective Equipment.	
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# **Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.

# 7. Handling and storage

**Precautions for safe handling:** Acetic acid is formed during processing. Wear appropriate personal protective equipment. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Keep containers tightly closed. See Section 8 of the SDS for Personal Protective Equipment. Sensitivity to static discharge is not expected.

Conditions for safe storage, Keep out of the reach of children. Keep container tightly closed. including any incompatibilities:

# 8. Exposure controls/personal protection

# **Control Parameters**

### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Filler	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	6 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)



		TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	Octamethylcyclotetrasiloxane	TWA	5 ppm	(2000)
	ropriate Engineering ontrols		ash facilities and emergency and this product.	shower must be available when
Indiv	vidual protection measure	es, such as	personal protective equipn	nent
	General information:	Wear s	uitable gloves and eye/face	protection.
	Eye/face protection:	Safety glasses with side shields		
	Skin Protection Hand Protection:	Chem	ical resistant gloves	
	Other:	Wear suitable protective clothing and eye/face protection.		
	Respiratory Protection:	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).		
	Hygiene measures:	especia Wash I	ally in confined areas. Observ	clothing. Ensure adequate ventilation, ve good industrial hygiene practices. nediately after handling the product. oke.

# 9. Physical and chemical properties

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Physical state:	solid
Form:	Paste
Color:	Colorless
Odor:	Acetic acid.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	ca. 72 °C (Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.

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# **RTV118**

Explosive limit - lower (%):	No data available.
Heat of combustion:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	ca. 1.05 g/cm3
Relative density:	ca. 1.05
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Soluble in toluene
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
VOC:	20 g/l ;

# 10. Stability and reactivity

Reactivity:	No dangerous reaction if used as recommended.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Reacts with water liberating small amounts of acetic acid.
Incompatible Materials:	Strong Acids, Strong Bases Water.
Hazardous Decomposition Products:	Carbon dioxide Acetic acid. Silicon dioxide. Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

# 11. Toxicological information

Information on likely routes of exposure Ingestion: No data available.		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
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Symptoms related to the physical, chemical and toxicological characteristics Ingestion: No data available.		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Information on toxicological effe	cts	
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Filler	LD 50 (Rat): > 15,000 mg/kg	
Octamethylcyclotetrasilox ane	LD 50 (Rat): 4,800 mg/kg	
Dermal Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Octamethylcyclotetrasilox ane	LD 50 (Rat): > 2,400 mg/kg	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Specified substance(s): Octamethylcyclotetrasilox ane	LC50 (Rat): 36 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Filler	(Rabbit): No skin irritation	
Specified substance(s):		



Octamethylcy oxane		OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation	
Serious Eye Damage/ Product:	-	n No data available.	
Respiratory or Skin S Product:		No data available.	
Carcinogenicity Product:	I	No data available.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified			
US. National To: No carcinogenic		gram (NTP) Report on Carcinogens: identified	
US. OSHA Spec No carcinogenic		Ilated Substances (29 CFR 1910.1001-1050): identified	
Germ Cell Mutagenici	ty		
In vitro Product:	I	No data available.	
Specified substa Octamethylcyclo ane	otetrasilox /	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagen	iic)
In vivo Product:	I	No data available.	
Specified substa Octamethylcycle ane	otetrasilox	Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative	
Reproductive toxicity Product:		No data available.	
Specific Target Organ Toxicity - Single Exposure Product: No data available.			
Specific Target Organ Product:		epeated Exposure No data available.	
Aspiration Hazard Product:	I	No data available.	
SDS_US			8/14



Other effects:

Acetic acid released during curing. Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

### 12. Ecological information

**Ecotoxicity:** 

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Filler	LC0 (Brachydanio rerio, 96 h): 5,000 mg/l
Aquatic Invertebrates Product: SDS_US	No data available.

9/14



Chronic hazards to the aquatic envi	ronment:
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Fish Product:	No data available.	
Specified substance(s): Filler	LC0 (Brachydanio rerio, 4 d): 5,000 mg/l	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	3.7 % (29 d, 310 Ready Biodegradability - $CO_2$ in Sealed Vessels (Headspace Test)) Not readily biodegradable.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BCF) Product: No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12.40	
Partition Coefficient n-octand Product:	ol / water (log Kow) No data available.	
Mobility in soil:	No data available.	
•	<b>ion to environmental compartments</b> No data available.	
Filler Octamethylcyclotetrasiloxa ne	No data available.	
Other adverse effects:	No data available.	

**RTV118** 

13. Disposal considerations	
General information:	The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product.

# 14. Transport information

### DOT

Not regulated.

### IMDG

Not regulated.

### ΙΑΤΑ

Not regulated.

Special precautions for user:	This product is not regarded as dangerous goods according to the
	national and international regulations on the transport of
	dangerous goods.

# 15. Regulatory information

### **US Federal Regulations**

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity	Reportable quantity
Octamethylcyclotetrasilox ane	De minimis concentration: TSCA Section: 4: 1.0% One-Time Export Notification only.

### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Acetic acid	5,000 lbs.
None present or	none present in regulated quantities.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

### Hazard categories

Delayed (Chronic) Health Hazard



### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Filler	10000 lbs
Octamethylcyclotetrasiloxa	10000 lbs
ne	

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

#### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Siloxanes and Silicones, di-Me hydroxy terminated Filler Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes, hydroxy-terminated Octamethylcyclotetrasiloxane di-tert-butoxydiacetoxysilane Acetic acid

### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

# US. Pennsylvania RTK - Hazardous Substances Chemical Identity

# Filler

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.



# **Inventory Status:**

Australia AICS:	y (positive listing)	Remarks: None.	
Canada DSL Inventory List:	y (positive listing)	Remarks: None.	
EU EINECS List:	y (positive listing)	Remarks: None.	
Japan (ENCS) List:	y (positive listing)	Remarks: None.	
China Inventory of Existing	y (positive listing)	Remarks: None.	
Chemical Substances:			
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.	
(KECI):			
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.	
Philippines PICCS:	y (positive listing)	Remarks: None.	
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory	
New Zealand Inventory of	y (positive listing)	Remarks: None.	
Chemicals:			
Taiwan. Taiwan inventory	y (positive listing)	Remarks: None.	
(CSNN):			

# 16.Other information, including date of preparation or last revision

### **HMIS Hazard ID**

Health	*	0	
Flammability		2	
Physical Hazards		1	
PERSONAL PROTECTION			

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

Issue Date:	10/24/2017
Revision Date:	No data available.
Version #:	3.0
Further Information:	No data available.



**Disclaimer:** 

### Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

# **Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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