

# SAFETY DATA SHEET

1. Identification Product identifier: RTV 108 Other means of identification Synonyms: ACETOXY SEALANT (translucent) Recommended use and restriction on use Recommended use: Silicone Elastomer Restrictions on use: For industrial use only. Manufacturer/Importer/Distr : Momentive Performance Materials - Daytona ibutor Information 703 South Street New Smyrna Beach FL 32168 **Contact person** commercial.services@momentive.com 5 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	1.02 %
Acute toxicity, dermal	1.02 %
Acute toxicity, inhalation, vapor	1.02 %
Acute toxicity, inhalation, dust or mist	1.02 %

#### Label Elements

Hazard Symbol:



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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.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	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.
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
Silica	Trade secret	10 - <20%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%	# This substance has workplace exposure limit(s).

\* 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 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. Do not give victim anything to drink if he is unconscious. Get medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.
Skin Contact:	Wash with soap and water.
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms/effec	ets, acute and delayed
Symptoms:	None known.
Hazards:	No data available.
Indication of immediate medical	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 other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
Suitable (and unsuitable) exting	uishing media
Suitable extinguishing media:	All standard extinguishing agents are suitable.
Unsuitable extinguishing media:	Do not use water jet.
Specific hazards arising from the chemical:	In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. 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 for fire-fighters:	Firefighters must wear NIOSH/MSHA approved positive pressure self- contained breathing apparatus with full face mask and full protective clothing.
6. Accidental release measure	S
Personal precautions, protective equipment and emergency procedures:	Avoid contact with eyes, skin, and clothing.Use only in well-ventilated areas. Avoid accidental ingestion of this material. Wash hands and face before eating, drinking, smoking, using toilet facilities, or applying cosmetics.
	Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands.Keep out of reach of children.Keep container closed.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.
Notification Procedures:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). See Section 8 of the SDS for Personal Protective Equipment.
7. Handling and storage	
Precautions for safe handling:	Sensitivity to static discharge is not expected. 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.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed in a cool, well-ventilated place.
8. Exposure controls/personal	protection

## **Control Parameters**

## **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	TWA	5 ppm	
Octamethylcyclotetrasiloxane - Vapor.	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)

Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental Exposure Level Guide (2014)
Chemical Identity	Туре	Exposure Limit Values	Source
Silica - Particulate.	ST ESL	27 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Silica	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)

Appropriate Engineering<br/>ControlsProvide adequate general and local exhaust ventilation. Eye washes and<br/>showers for emergency use.

## Individual protection measures, such as personal protective equipment

General information:	Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
Eye/face protection:	Safety glasses with side shields
Skin Protection Hand Protection: Other:	Butyl rubber gloves are recommended. 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:	Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation, especially in confined areas. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.

## 9. Physical and chemical properties

Appearance
Physical state:
Form:
Color:
Odor:

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solid Paste Colorless Acetic acid.



Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	Not applicable
Flash Point:	> 93.3 °C (estimated)
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.
Explosive limit - lower (%):	No data available.
Heat of combustion:	No data available.
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Vapor pressure:	No data available.
Vapor density:	No data available.
Vapor density: Density:	No data available. ca. 1.06 g/cm3
Density:	ca. 1.06 g/cm3
Density: Relative density:	ca. 1.06 g/cm3
Density: Relative density: Solubility(ies)	ca. 1.06 g/cm3 1.06
Density: Relative density: Solubility(ies) Solubility in water:	ca. 1.06 g/cm3 1.06 Insoluble
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available.
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature:	ca. 1.06 g/cm3 1.06 Insoluble Toluene
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available.
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available. No data available.
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available. No data available. No decomposition if stored and applied as directed.
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available. No data available. No decomposition if stored and applied as directed. No data available.
Density: Relative density: Solubility(ies) Solubility in water: Solubility (other): Partition coefficient (n-octanol/water) Log Pow: Auto-ignition temperature: Decomposition temperature: SADT: Viscosity, dynamic:	ca. 1.06 g/cm3 1.06 Insoluble Toluene No data available. No data available. No data available. No data available. No data available. No data available. No data available.

# 10. Stability and reactivity

No dangerous reaction if used as recommended.
Material is stable under normal conditions.
Hazardous polymerisation does not occur.
Keep away from moisture.
Strong Acids, Strong Bases Water.



Hazardous Decomposition Products:	Carbon dioxide Silicon dioxide. Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown th small amounts of formaldehyde are formed due to oxidative degradation	
11. Toxicological information		
Information on likely routes of ex Ingestion:	<b>xposure</b> No data available.	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Symptoms related to the physica Ingestion:	al, chemical and toxicological characteristics 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): 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: SDS_US	NOAEL (Rat(male and female), Inhalation(vapour)): 150 mg/kg	7/14

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	NOAEL (Rabbit(male and female), Dermal): > 1 mg/kg	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasil oxane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation	
Serious Eye Damage/Eye Irritatio Product:	on No data available.	
Respiratory or Skin Sensitization Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the I	Evaluation of Carcinogenic Risks to Humans:	
No carcinogenic components	s identified	
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)	
In vivo Product:	Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)): negative	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Product:	Single Exposure No data available.	
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	

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Aspiration Hazard Product:	No data available.
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 nezymes 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 levela level much higher than the low levels that con
12. Ecological information	

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:

No data available.

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Aquatic Invertebrates Product:	EC50 (Daphnia magna, 48 h): > 0.015 mg/l
Chronic hazards to the aquati	c environment:
Fish Product:	LC50 (Oncorhynchus mykiss, 14 d): 0.01 mg/l
Aquatic Invertebrates Product:	EC50 (Daphnia magna, 21 d): > 0.015 mg/l
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 (BC Product:	<b>CF)</b> No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12.40
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.
Mobility in soil:	No data available.
Known or predicted distribu Silica Octamethylcyclotetrasiloxa ne	<b>tion to environmental compartments</b> No data available. No data available.
Other adverse effects:	No data available.

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13. Disposal considerations	3
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.

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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	The minimum concentration: TSCA Section 4: 1.0%
ane	One-Time Export Notification only.

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

None present or none present in regulated quantities.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Reproductive toxicity

#### 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
Silica	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 requiring a warning under CA Prop 65.

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

## **Chemical Identity**

Dimethylpolysiloxane Silica Siloxanes and Silicones, di-Me hydroxy terminated Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes, hydroxy-terminated Octamethylcyclotetrasiloxane

#### US. Massachusetts RTK - Substance List

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

## US. Pennsylvania RTK - Hazardous Substances

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

## **US. Rhode Island RTK**

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



## **Inventory Status:**

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	Q (quantity restricted)	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.

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

## **HMIS Hazard ID**

Health	*	0
Flammability		1
Physical Hazards		1
PERSONAL PROTECTI	ON	

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

Issue Date:	05/22/2019
Revision Date:	No data available.
Version #:	4.1
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 ofour knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, 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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