

SAFETY DATA SHEET

1. Identification Product identifier: RTV103 Other means of identification Synonyms: ACETOXY SEALANT (black) Recommended use and restriction on use Recommended use: Silicone Elastomer Restrictions on use: For industrial use only. Manufacturer/Importer/Distr : Momentive Performance Materials LLC ibutor Information 260 Hudson River Road Waterford NY 12188 commercial.services@momentive.com **Contact person** : 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

Label Elements

Hazard Symbol:



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.
Hazard(s) not otherwise classified (HNOC):	None.
Substance(s) formed under t conditions of use:	he Generates acetic acid during cure.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	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.

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/effect	s, 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	Jishing 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 an	d precautions for firefighters	
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool.	
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 measures



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
Silane, dichlorodimethyl-, reaction products with silica	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Silane, dichlorodimethyl-, reaction products with silica - Particulate.	ST ESL	27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
Octamethylcyclotetrasiloxane	TWA	5 ppm	
Octamethylcyclotetrasiloxane - Vapor.	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)

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	Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (2014)
	ropriate Engineering ontrols			l exhaust ventilation. Eye washes and
Indiv	vidual protection measure	es, such as	personal protective equip	ment
	General information:	control	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:	Use cl	nemical-resistant, impervious	s gloves.
	Other:	Wear	suitable protective clothing a	and eye/face protection.
	Respiratory Protection:	If inhalation exposure is expected, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for nor routine or emergency situations. Respiratory protection must be provided i accordance with OSHA regulations (see 29CFR 1910.134).		d air respirators may be required for non- espiratory protection must be provided in
	Hygiene measures:	especi Wash	ally in confined areas. Obser	clothing. Ensure adequate ventilation, we good industrial hygiene practices. mediately after handling the product. loke.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	Black
Odor:	Acetic acid.
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Flash Point:	> 93.3 °C (estimated)
Evaporation rate:	< 1
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.
SDS_US	



Heat of combustion:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	ca. 1.06 g/cm3
Relative density:	ca. 1.06
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
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:	26 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 polymerization does not occur.
Conditions to avoid:	Keep away from moisture. Reacts with water liberating small amounts of acetic acid.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon dioxide 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 route Ingestion:	s of exposure No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.



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 effect	cts	
Acute toxicity (list all possible	routes of exposure)	
Oral Product:	ATEmix : 8,950.95 mg/kg	
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): > 2,375 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.	
Serious Eye Damage/Eye Irritatio Product:	n No data available.	
Respiratory or Skin Sensitizatior Product:	No data available.	



Carcinogenicity Product:	No data available.		
	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
	US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components identified		
Germ Cell Mutagenicity			
In vitro Product:	No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	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:	No data available.		
Specified substance(s): Octamethylcyclotetrasilox ane	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 - Product:	Single Exposure No data available.		
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.		
Aspiration Hazard Product:	No data available.		



Other effects:	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 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 consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this resea

Ecotoxicity:

Fish Product:

No data available.

Aquatic Invertebrates Product:

No data available.

Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

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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 (BC Product:	F) 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 distribut Silane, dichlorodimethyl-, reaction products with silica	tion to environmental compartments No data available.
Octamethylcyclotetrasiloxa	No data available.
Other adverse effects:	No data available.
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.

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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.	
IATA 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

Chemical identityReportable quantityOctamethylcyclotetrasilox
aneThe minimum concentration: TSCA 4: 1.0%
One-Time Export Notification only.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

Chemical Identity Dimethylpolysiloxane	OSHA hazard(s) No OSHA Hazards
Silane, dichlorodimethyl-, reaction products with silica	No OSHA Hazards
Siloxanes and Silicones, di-Me hydroxy terminated	No OSHA Hazards
Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes, hydroxy- terminated	No OSHA Hazards
Octamethylcyclotetrasilox ane	Systemic effects
Polydimethylsiloxane	No OSHA Hazards
Iron oxide	Causes mild skin irritation.; Respiratory hazard.

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

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

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 <u>Chemical Identity</u>

Dimethylpolysiloxane Silane, dichlorodimethyl-, reaction products with silica Siloxanes and Silicones, di-Me hydroxy terminated Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes, hydroxy-terminated Methyltriacetoxysilane

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: Please contact your supplier for further information on the inventory status of this material.
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.
REACH	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

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

HMIS Hazard ID

Health	*	0
Flammability		0
Physical Hazards		1
PERSONAL PROTECTI	ON	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not



Issue Date:	10/07/2020
Revision Date:	No data available.
Version #:	5.0
Further Information:	No data available.
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