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Version: 2.0 Revision Date: 10/07/2020

SAFETY DATA SHEET

1. Identification

MOMENTIVE

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/Supplier/Distributor Information

| Supplier's information | : | Hexion Canada Inc. 12621 156th Street NW Edmonton AB T5V 1E1 Canada |
|---|---|--|
| Manufacturer/Importer/Distr ibutor Information | : | Momentive Performance Materials LLC 260 Hudson River Road Waterford NY 12188 |
| Contact person Telephone | : | commercial.services@momentive.com 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:WarningHazard Statement:
Precautionary
StatementsH361; Suspected of damaging fertility or the unborn child.Prevention:Obtain special instructions before use. Do not handle until all safety
precautions have been read and understood. Wear protective
gloves/protective clothing/eye protection/face protection.



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 GHSNone.

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Substance(s) formed under the Generates acetic acid during cure. conditions of use:

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|------------------------------|------------|-------------------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | 1 - 5% |
| Acetic acid | 64-19-7 | 0.1 - 1% |
| Calcium Carbonate | 471-34-1 | 0.1 - 1% |

* 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 | s/effects, 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 | S | |

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| 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) extinguishing 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 and 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 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 |

g: 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.



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Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, well-ventilated place.

Storage conditions: No data available.

8. Exposure controls/personal protection

Control Parameters

| Occu | pational | Exposure | Limits |
|------|----------|----------|--------|
| | | | |

| Chemical Identity | Туре | Exposure Limit Values | Source |
|-------------------|---------------|-----------------------|--|
| Acetic acid | STEL | 15 ppm 37 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| | TWA | 10 ppm 25 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Acetic acid | STEL | 15 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| | TWA | 10 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Acetic acid | TWA | 10 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015) |
| | STEL | 15 ppm | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015) |
| Acetic acid | STEL | 15 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| | TWA | 10 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Acetic acid | 8 HR ACL | 10 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| | 15 MIN ACL | 15 ppm | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Acetic acid | TWA | 10 ppm 25 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| | STEL | 15 ppm 37 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| Acetic acid | TWA | 10 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 15 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |

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|---|---------------|----------|--|
| Calcium Carbonate | TWA | 10 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009) |
| Calcium Carbonate - Total dust. | STEL | 20 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Calcium Carbonate - Respirable fraction. | TWA | 3 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Calcium Carbonate - Total dust. | TWA | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Calcium Carbonate | 8 HR ACL | 10 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| | 15 MIN ACL | 20 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009) |
| Calcium Carbonate - Total dust. | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |

| Appropriate Engineering | Provide adequate general and local exhaust ventilation. Eye washes and |
|-------------------------|--|
| Controls | 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: | Use chemical-resistant, impervious gloves. |
| Skin protection: | Wear suitable protective clothing 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 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: | solid |
|-------------------------------|--------------------|
| Form: | Paste |
| Color: | Black |
| Odor: | Acetic acid. |
| Odor threshold: | No data available. |
| pH: | Not applicable |
| Melting point/freezing point: | Not applicable |



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| 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 explosition | ive 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. |
| 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): | No data available. |
| • • • • • • • | |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | 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: | 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 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.

Symptoms related to the physical, chemical and toxicological characteristics



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|---|---|
| Ingestion: | RTV103 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 | e routes of exposure) |
| Oral Product: | ATEmix: 8,950.95 mg/kg |
| Dermal Product: | No data available. |
| Specified substance(s): Octamethylcyclotetra L siloxane | _D 50LD 50 (Rat): > 2,375 mg/kg |
| Inhalation | |
| Product: | No data available. |
| Specified substance(s): Octamethylcyclotetrasilox ane | LC50 (Rat): 36 mg/l |
| Acetic acid | TDLo (Rat): 16 mg/l |
| Repeated dose toxicity Product: | No data available. |
| Skin Corrosion/Irritation Product: | No data available. |
| Specified substance(s): Octamethylcyclotetrasil oxane | OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Slightly irritating. |
| Serious Eye Damage/Eye Irritati Product: | on Not irritating |
| Specified substance(s): Octamethylcyclotetrasil oxane | OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating |
| Respiratory or Skin Sensitization Product: | n No data available. |
| Carcinogenicity Product: | No data available. |

No data available.

SDS_CA

Product:

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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 ACGIH Carcinogen List:

No carcinogenic components identified

ACGIH Carcinogens:

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 |



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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): Acetic acid | LC50 (Lepomis macrochirus, 96 h): 75 mg/l LC0 (Leuciscus idus): 368 mg/l LC100 (Leuciscus idus): 452 mg/l LC50 (Leuciscus idus, 48 h): 410 mg/l LC50 (Pimephales promelas, 96 h): 88 mg/l | |
| Aquatic Invertebrates Product: | No data available. | |
| Specified substance(s): Acetic acid | LC0 (Daphnia magna): 150 mg/l EC50 (Daphnia magna, 24 h): 95 mg/l | |
| Chronic hazards to the aquatic environment: | | |
| Fish Product: | No data available. | |
| Aquatic Invertebrates Product: | No data available. | |

Toxicity to Aquatic Plants
Product:No data available.

Persistence and Degradability



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|--|---|
| 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. |
| Acetic acid | 60 % (5 d, No data available.) |
| BOD/COD Ratio Product: | No data available. |
| Bioaccumulative potential Bioconcentration Factor (BC Product: | CF) 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 Octamethylcyclotetrasiloxa ne | tion to environmental compartments No data available. |
| Acetic acid Calcium Carbonate | No data available. 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. |
| 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 Pagulatory information | |

15. Regulatory information



RTV103 Canada Federal Regulations List of Toxic Substances (CEPA, Schedule 1) **Chemical Identity** Octamethylcyclotetrasilox ane Export Control List (CEPA 1999, Schedule 3) Not Regulated National Pollutant Release Inventory (NPRI) Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional **Reporting Requirements** NPRI PT5 Not Regulated Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4) NPRI Not Regulated **Greenhouse Gases** Not Regulated **Controlled Drugs and Substances Act** CA CDSI Not Regulated CA CDSII Not Regulated CA CDSIII Not Regulated

CA CDSIVNot RegulatedCA CDSVNot RegulatedCA CDSVIINot Regulated

CA CDSVIII Not Regulated

Precursor Control Regulations

Chemical Identity Acetic Anhydride

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|--|--|--|
| 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

| Issue Date: | 10/07/2020 |
|----------------------|--------------------|
| Revision Date: | No data available. |
| Version #: | 2.0 |
| Further Information: | No data available. |

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Disclaimer:

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Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for longlasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

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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