

Revision Date: 10/07/2020

#### **RTV5818**

# **SAFETY DATA SHEET**

## 1. Identification

Product identifier: RTV5818

Other means of identification

Synonyms: Silicone Rubber Sealant

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** 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**

Serious Eye Damage/Eye Irritation Category 2A Skin sensitizer Category 1 Category 1B Toxic to reproduction

#### **Label Elements**

### **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** H319; Causes serious eye irritation.

H317; May cause an allergic skin reaction.

H360; May damage fertility or the unborn child.

**Precautionary** 

SDS CA 1/13



Revision Date: 10/07/2020

#### **RTV5818**

**Statements** 

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get

medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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

None.

characteristics at time of disposal.

### **Unknown toxicity - Health**

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Other hazards which do not result in GHS

classification:

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

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Silane, dichlorodimethyl-, reaction products with silica, 68611-44-9	68611-44-9	10 - 30%
Hexamethyldisilazane	999-97-3	1 - 5%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1%
DIBUTYL TIN BIS ACETYLACETONATE	22673-19-4	0.1 - 1%

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

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

# 4. First-aid measures

SDS CA 2/13



Revision Date: 10/07/2020

#### **RTV5818**

**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 if any

discomfort continues.

**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:** To clean from skin, remove completely with a dry cloth or paper towel,

before washing with detergent and water.

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treatment is symptomatic and supportive. This product reacts with moisture

in the acid contents of the stomach to form methanol.

# 5. Fire-fighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other

involved materials. Collect contaminated fire extinguishing water

separately. This must not be discharged into drains.

Suitable (and unsuitable) extinguishing 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:

In case of fire, carbon monoxide and carbon dioxide may be formed. Oxides of silicon. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move container from fire area if it can be done without risk. Cool fire-

endangered containers with water.

Special protective equipment

for fire-fighters:

Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

# 6. Accidental release measures

SDS CA 3/13



Revision Date: 10/07/2020

#### **RTV5818**

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin and eyes. Use only in well-ventilated areas. 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. See Section 8 of the SDS for Personal Protective Equipment. Product releases methanol during application and curing.

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.

# 7. Handling and storage

**Precautions for safe handling:** Methanol is formed during processing. Ammonia is formed during

processing. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Use only in well-ventilated areas. See Section 8 of the SDS for Personal Protective Equipment. Sensitivity to static discharge is not

expected.

Conditions for safe storage, including any

including any incompatibilities:

Keep container closed.

**Storage conditions:** No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	<b>Exposure Limit Values</b>	Source
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	TWA	0.1 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
	STEL	0.2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	STEL	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA	0.1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	TWA	0.1 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)
	STEL	0.2 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	TWA	0.1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	8 HR ACL	0.1 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	0.2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	STEL	0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

SDS CA 4/13



Revision Date: 10/07/2020

RTV5818			
DIBUTYL TIN BIS ACETYLACETONATE - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)
	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2015)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol:	15 mg/l (Urine)	ACGIH BEI (03 2015)
Sampling time: End of shift.)		

**Appropriate Engineering** 

**Controls** 

Eye wash facilities and emergency shower must be available when

handling this product.

Individual protection measures, such as personal protective equipment

**General information:** Wear suitable gloves and eye/face protection.

**Eye/face protection:** Safety glasses with side shields Wear face shield if there is risk of

splashes.

**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. Wash hands after handling.

When using do not eat or drink.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state: solid
Form: Paste
Color: Colorless
Odor: Ammonia.

Odor threshold:

pH:

No data available.

No data available.

No data available.

No data available.

Not applicable

Initial boiling point and boiling range:

Not applicable

Flash Point: ca. 110 °C (Closed Cup)

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

No data available.

No data available.

No data available.

No data available.

Vapor pressure: < 1 hPa

Vapor density:No data available.Density:ca. 1.035 g/cm3

SDS CA 5/13



Revision Date: 10/07/2020

**RTV5818** 

Relative density: ca. 1.035

Solubility(ies)

Solubility in water: Insoluble Solubility (other): Insoluble

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:> 20.5 mm2/s (40 °C)

**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 polymerization does not occur.

Conditions to avoid: Moisture.

**Incompatible Materials:** Moisture. The catalysis of strong acids or bases cause polymerization or

decomposition.

**Hazardous Decomposition** 

**Products:** 

Carbon dioxide Formaldehyde. Silicon dioxide. Nitrogen Oxides Ammonia.

This product contains methylpolysiloxanes which can generate

formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above,

in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from Momentive.

### 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

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

SDS CA 6/13



Revision Date: 10/07/2020

#### **RTV5818**

## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 47,295.46 mg/kg

**Dermal** 

**Product:** ATEmix: 16,308.78 mg/kg

Inhalation

**Product:** ATEmix: 597.99 mg/l

Specified substance(s):

Octamethylcyclotetrasilox LC50 (Rat): 36 mg/l

ane

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasil OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit): Slightly

oxane irritating.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasil OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating

oxane

**Respiratory or Skin Sensitization** 

Product: Bühler-Patch-Test skin sensitisation on guinea pigs, OECD Test Guideline

406 (Guinea Pig): negative Test results are based on analogy with a similar

material.

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

**ACGIH Carcinogen List:** 

No carcinogenic components identified

**ACGIH Carcinogens:** 

No carcinogenic components identified

SDS CA 7/13



Revision Date: 10/07/2020

#### **RTV5818**

## **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 - Single Exposure

**Product:** No data available.

Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

Other effects: Octamethylcyclotetrasiloxane

Ingestion: Rodents given large doses via oral gavages of Octamethylcyclotetrasiloxane (1600 mg/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. 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 Octamethylcyclotetrasiloxane (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.

Interim results from a two generation reproductive study in rats exposed to 500 and 700 ppm D4 (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) resulted in a statistically

SDS CA 8/13



Revision Date: 10/07/2020

#### **RTV5818**

significant decrease in live mean litter size as well as extended periods of off-spring delivery (dystocia). These results were not observed at the 70 and 300ppm dosing levels.

Preliminary results from an ongoing 24-month combined chronic/oncogenicity study in rats exposed to 10, 30, 150, or700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months. These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of endometrial adenomas. All of these effects are limited to the 700 ppm exposure group.

These results have been shown to be rat-specific. Further studies are ongoing.

In developmental toxicity studies, rats and rabbits were exposed to Octamethylcyclotetrasiloxane at concentrations up to 700 ppm and 500 ppm respectively. No teratogenic effects (birth defects) were observed in either study.

Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

# 12. Ecological information

# **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

### 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

Biodegradation

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels

(Headspace Test)) Not readily biodegradable.

# **BOD/COD Ratio**

ane

SDS CA 9/13



Revision Date: 10/07/2020

#### **RTV5818**

**Product:** No data available.

### Bioaccumulative potential

# **Bioconcentration Factor (BCF)**

**Product:** No data available.

Specified substance(s):

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12.40

ane

# Partition Coefficient n-octanol / water (log Kow) Product: No data available.

Specified substance(s):

Hexamethyldisilazane Log Kow: Not applicable

**Mobility in soil:** No data available.

# Known or predicted distribution to environmental compartments

Hexamethyldisilazane No data available.
Octamethylcyclotetrasiloxa No data available.

ne

DIBUTYL TIN BIS No data available.

**ACETYLACETONATE** 

Other adverse effects: No data available.

# 13. Disposal considerations

**General information:** The generation of waste should be avoided or minimized wherever

possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective

equipment.

**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

SDS CA 10/13



Revision Date: 10/07/2020

#### **RTV5818**

# 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 Methanol

## 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 CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

# **Precursor Control Regulations**

Not Regulated

SDS\_CA 11/13



Revision Date: 10/07/2020

#### **RTV5818**

Inventory Status:

Australia AICS: y (positive listing) Remarks: None.

EU EINECS List: y (positive listing) Remarks: None.

Japan (ENCS) List: n (negative listing) Remarks: None.

China Inventory of Existing

Chemical Substances:

y (positive listing)

Remarks: None.

Korea Existing Chemicals Inv.

(KECI):

y (positive listing)

Remarks: None.

Canada DSL Inventory List: y (positive listing)

Canada NDSL Inventory: n (negative listing)

Remarks: None.
Remarks: None.

Remarks: None.

Philippines PICCS: y (positive listing)

Remarks: On TSCA Inventory

Taiwan Chemical Substance

US TSCA Inventory:

Inventory:

y (positive listing)

y (positive listing)

Remarks: None.

New Zealand Inventory of

Chemicals:

y (positive listing)

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.

SDS CA 12/13



Revision Date: 10/07/2020

## Disclaimer:

#### **RTV5818**

## 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 long-lasting (> 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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SDS CA 13/13