

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1	Revision Date: 05/23/2022	SDS Number: 10702209-00006	Date of last issue: 10/21/2021 Date of first issue: 11/16/2016
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**SECTION 1. IDENTIFICATION**

Product name : RTV SILICONE GASKET, Sensor-safe, Black, 226 g  
Product code : 890.913  
Other means of identification : No data available

**Manufacturer or supplier's details**

Company name of supplier : Würth Canada Limited  
Address : 345 Hanlon Creek Blvd  
GUELPH, ON N1C 0A1  
Telephone : +1 (905) 564 6225  
Telefax : +1 (905) 564 3671  
Emergency telephone : Emergencies involving a spill, fire, explosion or exposure:  
CHEMTREC (24/7): 1-800-424-9300  
Transport related emergencies:  
CANUTEC (24/7): 1-613-996-6666 or \* 666 (cell)  
  
Urgences impliquant un déversement, incendie, explosion ou exposition:  
CHEMTREC (24/7): 1-800-424-9300  
Urgences liées au transport:  
CANUTEC (24/7): 1-613-996-6666 ou \* 666 (cellulaire)  
  
E-mail address : prodsafe@wurth.ca

**Recommended use of the chemical and restrictions on use**

Recommended use : Sealant  
  
Restrictions on use : Not applicable

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the Hazardous Products Regulations**

Gases under pressure : Liquefied gas  
Skin sensitization : Category 1  
Carcinogenicity : Category 1B  
Reproductive toxicity : Category 2

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

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Specific target organ toxicity : Category 2 (Blood)  
- repeated exposure

Simple Asphyxiant : Category 1

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H280 Contains gas under pressure; may explode if heated.  
H317 May cause an allergic skin reaction.  
H350 May cause cancer.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs (Blood) through prolonged or repeated exposure.  
May displace oxygen and cause rapid suffocation.

Precautionary Statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P308 + P313 IF exposed or concerned: Get medical attention.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**

P405 Store locked up.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

**Disposal:**

P501 Dispose of contents and container to an approved waste disposal plant.

**Other hazards**

None known.

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Butan-2-one O,O',O''-(methylsilyldyne)trioxime	N-[bis[(butan-2-ylidene-amino)oxy]-methylsilyl]oxybutan-2-imine	22984-54-9	$\geq 1 - < 5$ *
1,1-Difluoroethane	Hydrofluorocarbon 152A	75-37-6	$\geq 1 - < 5$ *
Titanium dioxide	Titanic anhydride	13463-67-7	$\geq 0.1 - < 1$ *
Butan-2-one O,O',O''-(vinylsilyldyne)trioxime	N-[Bis[[(E)-butan-2-ylidene-amino]oxy]-ethenylsilyl]oxybutan-2-imine	2224-33-1	$\geq 0.1 - < 1$ *
Methyl-tri(ethylmethylketoxime)silane isomers and oligomers	No data available	Not Assigned	$\geq 0.1 - < 1$ *
Dimethyl Cyclosiloxanes	Cyclosiloxanes, di-Me	69430-24-6	$\geq 0.1 - < 1$ *

\* Actual concentration or concentration range is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
May cause cancer.  
Suspected of damaging fertility.  
May cause damage to organs through prolonged or repeated exposure.  
Gas reduces oxygen available for breathing.
- Protection of first-aiders : First Aid responders should pay attention to self-protection,  
and use the recommended personal protective equipment  
when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.
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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Silicon oxides  
Fluorine compounds
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protec- : Evacuate personnel to safe areas.
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**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

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|---|---|---|
| tive equipment and emergency procedures               | : | Ventilate the area.<br>Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).   |
| Environmental precautions                             | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g., by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.   |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material.<br>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.<br>Clean up remaining materials from spill with suitable absorbent.<br>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

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**SECTION 7. HANDLING AND STORAGE**

- |                             |   |   |
|-----------------------------|---|---|
| Technical measures          | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.   |
| Local/Total ventilation     | : | If sufficient ventilation is unavailable, use with local exhaust ventilation.   |
| Advice on safe handling     | : | Do not get on skin or clothing.<br>Do not breathe spray.<br>Do not swallow.<br>Avoid contact with eyes.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep container tightly closed.<br>Keep away from water.<br>Protect from moisture.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Store locked up.<br>Keep tightly closed.<br>Keep in a cool, well-ventilated place.<br>Store in accordance with the particular national regulations.   |

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

Do not pierce or burn, even after use.  
Keep cool. Protect from sunlight.

Materials to avoid : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures which in contact with water emit flammable gases  
Explosives  
Gases

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Total dust)	10 mg/m <sup>3</sup>	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m <sup>3</sup>	CA BC OEL
		TWAEV (total dust)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH

**Occupational exposure limits of decomposition products**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl methyl ketoxime	96-29-7	TWA	10 ppm	US WEEL

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.

**Personal protective equipment**

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

- Filter type : Self-contained breathing apparatus
- Hand protection
- Material : Chemical-resistant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:  
Safety glasses
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : paste
- Propellant : 1,1-Difluoroethane
- Color : black
- Odor : slight
- Odor Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling : Not applicable

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

range

Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	1.04
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle size	:	Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Use at elevated temperatures may form highly hazardous compounds. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.



**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Can react with strong oxidizing agents.  
Methyl Ethyl Ketoxime (MEKO) is formed upon contact with water or humid air.  
Hazardous decomposition products will be formed upon contact with water or humid air.

Conditions to avoid : Exposure to moisture.

Incompatible materials : Oxidizing agents  
Water

**Hazardous decomposition products**

Contact with water or humid air : Ethyl methyl ketoxime

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**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Acute oral toxicity : LD50 (Rat): 2,453 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**1,1-Difluoroethane:**

Acute inhalation toxicity : LC50 (Rat): > 437500 ppm  
Exposure time: 4 h  
Test atmosphere: gas

**Titanium dioxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Assessment: The substance or mixture has no acute inhalation toxicity

**Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 425

Acute dermal toxicity : LD50 (Rat): > 2,009 mg/kg  
Method: OECD Test Guideline 402

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Acute oral toxicity : Acute toxicity estimate: 100 mg/kg  
Method: Expert judgment  
Remarks: Based on data from similar materials

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgment  
Remarks: Based on data from similar materials

**Dimethyl Cyclosiloxanes:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50: 36 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on data from similar materials

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Titanium dioxide:**

Species : Rabbit  
Result : No skin irritation

**Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

---

**Dimethyl Cyclosiloxanes:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days  
Method : OECD Test Guideline 405

**Titanium dioxide:**

Species : Rabbit  
Result : No eye irritation

**Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Method : OECD Test Guideline 405

**Dimethyl Cyclosiloxanes:**

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime:**

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Result : positive

Assessment : Probability or evidence of skin sensitization in humans

**Titanium dioxide:**

Test Type : Local lymph node assay (LLNA)

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Routes of exposure : Skin contact  
 Species : Mouse  
 Result : negative

**Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Test Type : Maximization Test  
 Routes of exposure : Skin contact  
 Species : Guinea pig  
 Result : positive  
 Remarks : Based on data from similar materials

Assessment : Probability or evidence of skin sensitization in humans

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Test Type : Buehler Test  
 Routes of exposure : Skin contact  
 Species : Guinea pig  
 Result : positive  
 Remarks : Based on data from similar materials

Assessment : Probability or evidence of skin sensitization in humans

**Dimethyl Cyclosiloxanes:**

Test Type : Maximization Test  
 Routes of exposure : Skin contact  
 Species : Guinea pig  
 Method : OECD Test Guideline 406  
 Result : negative  
 Remarks : Based on data from similar materials

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**
**Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
 Result: negative

**1,1-Difluoroethane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
 Method: OECD Test Guideline 471  
 Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
 cytogenetic assay)  
 Species: Rat  
 Application Route: inhalation (gas)  
 Method: OECD Test Guideline 474  
 Result: negative

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

**Titanium dioxide:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Result: negative

**Butan-2-one O,O',O''-(vinylsilyldiene)trioxime:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA syn-  
thesis in mammalian cells (in vitro)  
Method: OECD Test Guideline 482  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

**Dimethyl Cyclosiloxanes:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

**Carcinogenicity**

May cause cancer.

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

---

**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Species : Rat  
Application Route : inhalation (vapor)  
Exposure time : 26 Months  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

**1,1-Difluoroethane:**

Species : Rat  
Application Route : inhalation (vapor)  
Exposure time : 104 weeks  
Result : negative

**Titanium dioxide:**

Species : Rat  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 2 Years  
Method : OECD Test Guideline 453  
Result : positive  
Remarks : The mechanism or mode of action may not be relevant in humans.

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

**Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Species : Rat  
Application Route : inhalation (vapor)  
Exposure time : 26 Months  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Species : Rat  
Application Route : inhalation (vapor)  
Exposure time : 26 Months  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

---

**Reproductive toxicity**

Suspected of damaging fertility.

**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

**1,1-Difluoroethane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (gas)  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative

**Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

---

Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

**Dimethyl Cyclosiloxanes:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Inhalation  
Method: OPPTS 870.3800  
Result: positive  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

**STOT-single exposure**

Not classified based on available information.

**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Assessment : May cause drowsiness or dizziness.  
Remarks : Based on data from similar materials

**1,1-Difluoroethane:**

Assessment : May cause drowsiness or dizziness.

**Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Assessment : May cause drowsiness or dizziness.  
Remarks : Based on data from similar materials

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Assessment : May cause drowsiness or dizziness.  
Remarks : Based on data from similar materials

**STOT-repeated exposure**

May cause damage to organs (Blood) through prolonged or repeated exposure.

**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Routes of exposure : Ingestion  
Target Organs : Blood



**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

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Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.  
Remarks : Based on data from similar materials

**Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Routes of exposure : Ingestion  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.  
Remarks : Based on data from similar materials

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Routes of exposure : Ingestion  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.  
Remarks : Based on data from similar materials

**Repeated dose toxicity****Components:****Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Species : Rat  
LOAEL : > 1.7 mg/l  
Application Route : inhalation (vapor)  
Exposure time : 26 Months  
Remarks : Based on data from similar materials

Species : Rat, male  
NOAEL : > 10 - 100 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Remarks : Based on data from similar materials

**1,1-Difluoroethane:**

Species : Rat  
NOAEL : 100000 ppm  
Application Route : inhalation (gas)  
Exposure time : 14 Days

**Titanium dioxide:**

Species : Rat  
NOAEL : 24,000 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

Species : Rat  
NOAEL : 10 mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Exposure time : 2 y

**Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rat  
 LOAEL : > 1.7 mg/l  
 Application Route : inhalation (vapor)  
 Exposure time : 26 Months  
 Remarks : Based on data from similar materials

Species : Rat, male  
 NOAEL : > 10 - 100 mg/kg  
 Application Route : Ingestion  
 Exposure time : 13 Weeks  
 Remarks : Based on data from similar materials

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Species : Rat  
 LOAEL : > 1.7 mg/l  
 Application Route : inhalation (vapor)  
 Exposure time : 26 Months  
 Remarks : Based on data from similar materials

Species : Rat, male  
 NOAEL : > 10 - 100 mg/kg  
 Application Route : Ingestion  
 Exposure time : 13 Weeks  
 Remarks : Based on data from similar materials

**Aspiration toxicity**

Not classified based on available information.

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 120 mg/l  
 aquatic invertebrates : Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 94  
 plants : mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

- NOEC (Pseudokirchneriella subcapitata (green algae)): 30 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): > 1 mg/l  
Exposure time: 14 d  
Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Titanium dioxide:**
- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l  
Exposure time: 72 h
- Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Butan-2-one O,O',O''-(vinylsilyldi)trioxime:**
- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- NOEC (Scenedesmus capricornutum (fresh water algae)): > 1

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (*Oryzias latipes* (Orange-red killifish)): > 1 mg/l  
 Exposure time: 14 d  
 Method: OECD Test Guideline 204  
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): > 1 mg/l  
 Exposure time: 21 d  
 Method: OECD Test Guideline 211  
 Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 100 mg/l  
 Exposure time: 17 h  
 Remarks: Based on data from similar materials

**Methyltri(ethylmethylketoxime)silane isomers and oligomers:**

Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): > 100 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203  
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (*Scenedesmus capricornutum* (fresh water algae)): > 10 - 100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 Remarks: Based on data from similar materials

NOEC (*Scenedesmus capricornutum* (fresh water algae)): > 1 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (*Oryzias latipes* (Orange-red killifish)): > 1 mg/l  
 Exposure time: 14 d  
 Method: OECD Test Guideline 204  
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): > 1 mg/l  
 Exposure time: 21 d  
 Method: OECD Test Guideline 211  
 Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 100 mg/l

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version 5.1      Revision Date: 05/23/2022      SDS Number: 10702209-00006      Date of last issue: 10/21/2021  
Date of first issue: 11/16/2016

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Exposure time: 17 h  
Remarks: Based on data from similar materials

**Dimethyl Cyclosiloxanes:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.014 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials  
No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.015 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials  
No toxicity at the limit of solubility.

**Persistence and degradability****Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 28 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Biodegradability : Result: not rapidly degradable  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A  
Remarks: Based on data from similar materials

**Dimethyl Cyclosiloxanes:**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

**Bioaccumulative potential****Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Partition coefficient: n-octanol/water : log Pow: 0.59 - 0.65

**1,1-Difluoroethane:**

Partition coefficient: n-octanol/water : log Pow: 0.75

**Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Bioaccumulation : Species: Cyprinus carpio (Carp)

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Bioconcentration factor (BCF): 0.5 - 2.5  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 0.59 - 0.65

**Dimethyl Cyclosiloxanes:**

Partition coefficient: n-octanol/water : log Pow: > 4

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.  
Please ensure aerosol cans are sprayed completely empty (including propellant)

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.2  
Packing group : Not assigned by regulation  
Labels : 2.2

**IATA-DGR**

UN/ID No. : UN 1950  
Proper shipping name : Aerosols, non-flammable  
Class : 2.2  
Packing group : Not assigned by regulation  
Labels : Non-flammable, non-toxic Gas  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

**IMDG-Code**

UN number : UN 1950  
Proper shipping name : AEROSOLS

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**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

Class	: 2.2
Packing group	: Not assigned by regulation
Labels	: 2.2
EmS Code	: F-D, S-U
Marine pollutant	: no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****TDG**

UN number	: UN 1950
Proper shipping name	: AEROSOLS

Class	: 2.2
Packing group	: Not assigned by regulation
Labels	: 2.2
ERG Code	: 126
Marine pollutant	: no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION**

<b>Volatile organic compounds (VOC) content</b>	CANADIAN ENVIRONMENTAL PROTECTION ACT, 1999 - Guidelines for VOC in Consumer Products VOC content: 3.96 % / 41.18 g/l
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**International Regulations**

Montreal Protocol	: 1,1-Difluoroethane
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**The ingredients of this product are reported in the following inventories:**

DSL	: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	: Canada. British Columbia OEL
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-

**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

---

	borne contaminants
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
CA AB OEL / TWA	: 8-hour Occupational exposure limit
CA BC OEL / TWA	: 8-hour time weighted average
CA QC OEL / TWAEV	: Time-weighted average exposure value
US WEEL / TWA	: 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
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Revision Date	: 05/23/2022
Date format	: mm/dd/yyyy

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS mate-



**RTV SILICONE GASKET, Sensor-safe, Black,  
226 g**

Version	Revision Date:	SDS Number:	Date of last issue: 10/21/2021
5.1	05/23/2022	10702209-00006	Date of first issue: 11/16/2016

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Material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CA / Z8