

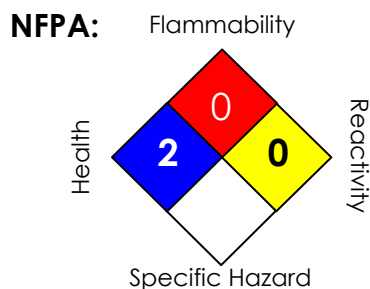
Material Safety Data Sheet

RTV Silicone BLACK 300ML

Version 3.1

Revision Date 08/20/2014

Print Date 08/22/2014


HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL	0

 0 = Insignificant, 1 = Slight,
 2 = Moderate, 3 = High, 4 = Extreme

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name : RTV Silicone BLACK 300ML
 Product code : 892.3176
 SDS-Identcode : 10041963
 Product Use Description : Sealant
 Company : Würth Canada Limited
 345 Hanlon Creek Blvd
 GUELPH, ON N1C 0A1
 Canada
 Telephone : +1 (905) 564 6225
 Telefax : +1 (905) 564 3671
 Responsible/issuing person : prodsafe@wuerth.com
 Emergency telephone number : In case of emergency please contact: CANUTEC (5:00 pm - 8:00 am):
 +1 (613) 996 6666
 WÜRTH CANADA LIMITED (8:00 am - 5:00 pm):
 +1 (905) 564 6225

SECTION 2. HAZARDS IDENTIFICATION
Emergency Overview

Regulatory status : This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

Signal Word : DANGER
 Form : paste
 Colour : black, grey

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Odour : vinegar-like
Odour - Control : No data available
parameters
Hazard Summary : Irritant

May cause cancer.
May cause birth defects.

Potential Health Effects

Eyes : Causes eye irritation.
Skin : Causes skin irritation.
Inhalation : Causes respiratory tract irritation.
Chronic Exposure : Suspect reproductive hazard - contains material which may injure unborn child.
Target Organs : Respiratory system
Eyes
Skin

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
Silicon dioxide	7631-86-9	>= 25 - < 35
Methyltriacetoxysilane	4253-34-3	>= 3 - < 5
Triacetoxethylsilane	17689-77-9	>= 3 - < 5
octamethylcyclotetrasiloxane	556-67-2	>= 0.75 - < 1
Carbon black	1333-86-4	>= 0.75 - < 1

SECTION 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
Inhalation : If breathed in, move person into fresh air. If symptoms

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- persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

SECTION 5. FIREFIGHTING MEASURES

- Form : paste
- Flash point : Note: No data available
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products may be formed under fire conditions (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.

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This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water
must be disposed of in accordance with local
regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapour or mist.
Contaminated surfaces will be extremely slippery.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains
inform respective authorities.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica
gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE**Handling**

- Handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Dust explosion class : Not applicable

Storage

- Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

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Protect from moisture.

- Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.
Keep away from food, drink and animal feedingstuffs.
- Storage temperature : 10 - 25 °C (50 - 77 °F)
- Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
Carbon black	1333-86-4	CA AB OEL	TWA	3.5 mg/m3	2007-01-01
		CA QC OEL	TWAEV	3.5 mg/m3	2006-12-29
		CA BC OEL	TWA	3 mg/m3	2011-09-15
acetic acid	64-19-7	CA AB OEL	TWA	10 ppm 25 mg/m3	2009-04-30
		CA AB OEL	STEL	15 ppm 37 mg/m3	2009-04-30
		CA BC OEL	TWA	10 ppm	2006-11-29
		CA BC OEL	STEL	15 ppm	2006-11-29
		CA QC OEL	TWAEV	10 ppm 25 mg/m3	2006-12-29
		CA QC OEL	STEV	15 ppm 37 mg/m3	2006-12-29

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Tightly fitting safety goggles
Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection : Neoprene gloves
Nitrile rubber
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

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- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141).
Respirator with filter type A
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Take off all contaminated clothing immediately.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : paste
Colour : black, grey
Odour : vinegar-like
Flash point : Note: No data available
- Density : 1.01 g/cm³
- Solubility in other solvents : insoluble

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Keep away from heat and sources of ignition.
Protect from moisture.
- Materials to avoid : Oxidizing agents
Strong acids and strong bases
- Hazardous decomposition products : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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	Carbon oxides Metal oxides Formaldehyde Acetic acid
Hazardous reactions	: Ethanoic acid is formed during the processing. Note: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: No data is available on the product itself.
Teratogenicity	: No data is available on the product itself.

Component:

Silicon dioxide	7631-86-9	<u>Acute oral toxicity</u> : LD50 Rat Dose: > 5,000 mg/kg <u>Acute dermal toxicity</u> : LD50 Rabbit Dose: > 5,000 mg/kg <u>Acute inhalation toxicity</u> : LC50 Rat Dose: > 58.8 mg/l/Exposure time: 4 h <u>Skin irritation</u> : Rabbit Result: No skin irritation <u>Eye irritation</u> : Rabbit Result: No eye irritation <u>Carcinogenicity</u> : Animal testing did not show any carcinogenic effects.
Methyltriacetoxysilane	4253-34-3	<u>Acute oral toxicity</u> : LD50 Rat Dose: 1,600 mg/kg Method: OECD Test Guideline 401 <u>Skin irritation</u> : Rabbit Result: Causes burns. Method: OECD Test Guideline 404 <u>Eye irritation</u> : Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405 <u>Reproductive toxicity</u> : No toxicity to reproduction
Triacetoxethylsilane	17689-77-9	<u>Acute inhalation toxicity</u> : LC50 Dose: > 1 - 5 mg/l/Exposure time: 4 h

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		<u>Skin irritation:</u> Result: Causes burns.
octamethylcyclotetrasiloxane	556-67-2	<u>Acute oral toxicity:</u> LD50 Rat Dose: > 4,800 mg/kg Method: OECD Test Guideline 401 <u>Acute dermal toxicity:</u> LD50 Rat Dose: > 2,500 mg/kg Method: OECD Test Guideline 402 <u>Acute inhalation toxicity:</u> LC50 Rat Dose: 36 mg/l/Exposure time: 4 h Method: OECD Test Guideline 403 <u>Skin irritation:</u> Rabbit Result: No skin irritation Method: OECD Test Guideline 404 <u>Eye irritation:</u> Rabbit Result: No eye irritation Method: OECD Test Guideline 405 <u>Carcinogenicity:</u> Animal testing did not show any carcinogenic effects. <u>Mutagenicity:</u> In vivo tests did not show mutagenic effects <u>Reproductive toxicity:</u> Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments. <u>Teratogenicity:</u> Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
Carbon black	1333-86-4	<u>Eye irritation:</u> Result: irritating

SECTION 12. ECOLOGICAL INFORMATION

Adsorbed organic bound halogens (AOX) : not included
Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

Silicon dioxide	7631-86-9	<u>Toxicity to fish:</u> LC0 Species: Danio rerio (zebra fish) Dose: > 10,000 mg/l Exposure time: 96 h
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Methyltriacetoxysilane

4253-34-3

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 10,000 mg/l

Exposure time: 24 h

Toxicity to algae:

EC50

Species: Scenedesmus subspicatus

Dose: > 10,000 mg/l

Exposure time: 72 h

Toxicity to fish:

LC50

Species: Brachydanio rerio (zebrafish)

Dose: > 500 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 500 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 500 mg/l

Exposure time: 72 h

Toxicity to bacteria:

Respiration inhibition of activated sludge EC10

Species:

Dose: > 100 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

octamethylcyclotetrasiloxane

556-67-2

Toxicity to fish:

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 0.022 mg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 0.015 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 0.022 mg/l

Exposure time: 96 h

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SECTION 13. DISPOSAL CONSIDERATIONS

Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
This material and its container must be disposed of as hazardous waste.
Do not dispose of together with household waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

Not dangerous goods

TDGR

Not dangerous goods

ICAO/IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2A Very Toxic Material Causing Other Toxic Effects
D2B Toxic Material Causing Other Toxic Effects
Teratogen
Carcinogen
Severe skin irritant
Moderate respiratory irritant
Severe eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION**Further information**

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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 given is designed only as a guidance for safe handling, 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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