

# DOW CORNING(R) 1199 SILICONE GLAZING SEALANT CLEAR

Version	Revision Date:	SDS Number:	Date of last issue: 03.04.2015
2.0	01.10.2015	644364-00004	Date of first issue: 17.10.2014

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) 1199 SILICONE GLAZING SEALANT CLEAR

Product code : 000000000004099407, 000000000004099407

### Manufacturer or supplier's details

Company : Dow Corning Australia Pty Ltd, ABN 36 008 444 166

Address : Darling Park, Tower 2  
Level 20, 201 Sussex Street  
Sydney. NSW 2000

Locked Bag 2095  
North Ryde, NSW 1670

Telephone : 1300-369-745

Emergency telephone number : 1300-360-732 (24 Hours)

Telefax : 1300-650-785

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

Recommended use : Adhesive, binding agents

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Category 1

### GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

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**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

**Disposal:**

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

**Other hazards which do not result in classification**

None known.

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

Substance / Mixture : Mixture  
Chemical nature : Silicone elastomer

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	< 10
Methyltri(ethylmethylketoxime)silane	22984-54-9	< 10
Vinyltri (methylethylketoxime) silane	2224-33-1	< 10
N-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	< 10
Octamethylcyclotetrasiloxane	556-67-2	< 10
Methyltri(ethylmethylketoxime)silane isomers and oligomers	Not Assigned	< 10
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	< 10

**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.  
Get medical attention.

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.

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|---|---|--|
| In case of eye contact                                      | : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention. |
| If swallowed  | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.  |
| Most important symptoms and effects, both acute and delayed | : | May cause an allergic skin reaction.<br>Causes serious eye irritation.   |
| 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.        |
| Notes to physician  | : | Treat symptomatically and supportively.  |
- 

## SECTION 5. FIREFIGHTING MEASURES

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

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Follow safe handling advice and personal protective equipment. |
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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (Respirable dust)	2 mg/m <sup>3</sup>	AU OEL
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	DCC OEL
Dimethylbis[(1-oxodecyl)oxy]stannane	68928-76-7	TWA	0.1 mg/m <sup>3</sup> (Tin)	AU OEL
	Further information: Some compounds in these groups are classified as carcinogenic or as sensitizers. Check individual classification details on the safety data sheet for information on classification., Skin absorption			
		STEL	0.2 mg/m <sup>3</sup> (Tin)	AU OEL
	Further information: Some compounds in these groups are classified as carcinogenic or as sensitizers. Check individual classification details on the safety data sheet for information on classification., Skin absorption			
		TWA	0.1 mg/m <sup>3</sup> (Tin)	ACGIH
		STEL	0.2 mg/m <sup>3</sup> (Tin)	ACGIH

## Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	STEL	250 ppm 328 mg/m <sup>3</sup>	AU OEL
	Further information: Skin absorption			
		TWA	200 ppm 262 mg/m <sup>3</sup>	AU OEL
	Further information: Skin absorption			
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH

**Engineering measures** : Processing may form hazardous compounds (see section 10).  
Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

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Hand protection Material	:	Impervious gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and 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 goggles
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).

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	paste
Colour	:	Colorless to pale yellow
Odour	:	slight
Odour Threshold	:	No data available
pH	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available

# SAFETY DATA SHEET

**DOW CORNING**

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Relative density : 1.04

Solubility(ies)  
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

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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.  
Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed upon contact with water or humid air.  
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture

Incompatible materials : Oxidizing agents  
Water

Hazardous decomposition products  
Contact with water or humid air : Ethyl methyl ketoxime  
Methanol

Thermal decomposition : Formaldehyde

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### SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact  
Ingestion  
Eye contact

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**Acute toxicity**

|| Not classified based on available information.

**Product:**

|| Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

**Components:****Silicon dioxide:**

|| Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Information taken from reference works and the literature.

|| Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Information taken from reference works and the literature.

|| Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Information taken from reference works and the literature.

**Methyltri(ethylmethylketoxime)silane:**

|| Acute oral toxicity : LD50 (Rat): > 2,520 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on test data

**Vinyltri (methylethylketoxime) silane:**

|| Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on test data

|| Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on test data

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

|| Acute oral toxicity : LD50 (Rat): 2,295 mg/kg  
Remarks: Based on test data

|| Acute inhalation toxicity : LC50 (Rat): > 1.49 mg/l

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	Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on test data
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data
<b>Octamethylcyclotetrasiloxane:</b>	
Acute oral toxicity	: LD50 (Rat): > 4,800 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on test data
Acute inhalation toxicity	: LC50 (Rat): 2975 ppm Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data
Acute dermal toxicity	: LD50 (Rabbit): > 2.5 ml/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data
<b>Dimethylbis[(1-oxodecyl)oxy]stannane:</b>	
Acute oral toxicity	: LD50 (Rat): 894 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Silicon dioxide:**

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

**Methyltri(ethylmethylketoxime)silane:**

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Species: Rabbit

Result: Mild skin irritation

Remarks: Based on test data

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||

**Octamethylcyclotetrasiloxane:**

Species: Rabbit  
Result: No skin irritation  
Remarks: Based on test data

||

**Dimethylbis[(1-oxodecyl)oxy]stannane:**

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

||

**Serious eye damage/eye irritation**

|| Causes serious eye irritation.

**Components:****Silicon dioxide:**

Result: No eye irritation  
Remarks: Information taken from reference works and the literature.

||

**Methyltri(ethylmethylketoxime)silane:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 7 days  
Remarks: Based on test data

||

**Vinyltri (methylethylketoxime) silane:**

Species: Rabbit  
Result: Irreversible effects on the eye  
Remarks: Based on test data

||

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Species: Rabbit  
Result: Irreversible effects on the eye  
Remarks: Based on test data

||

**Octamethylcyclotetrasiloxane:**

Species: Rabbit  
Result: No eye irritation  
Remarks: Based on test data

||

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

Species: Rabbit  
Result: Irritation to eyes, reversing within 7 days  
Remarks: Based on data from similar materials

||

**Dimethylbis[(1-oxodecyl)oxy]stannane:**

Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

||

**Respiratory or skin sensitisation**

|| Skin sensitisation: May cause an allergic skin reaction.  
|| Respiratory sensitisation: Not classified based on available information.

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**Components:****Silicon dioxide:**

Assessment: Does not cause skin sensitisation.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: Information taken from reference works and the literature.

**Methyltri(ethylmethylketoxime)silane:**

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Based on test data

**Vinyltri (methylethylketoxime) silane:**

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Causes sensitisation.

Based on data from similar materials

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Information taken from reference works and the literature.

**Octamethylcyclotetrasiloxane:**

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Based on test data

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

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test

Species: Guinea pig

Remarks: Causes sensitisation.

Based on data from similar materials

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

**Components:****Silicon dioxide:**

Genotoxicity in vitro : Result: negative

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Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo : Application Route: Ingestion  
Result: negative  
Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Methyltri(ethylmethylketoxime)silane:**

Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Result: negative  
Remarks: Based on test data

**Vinyltri (methylethylketoxime) silane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on test data

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative  
Remarks: Based on test data

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**Octamethylcyclotetrasiloxane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on test data

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Result: negative  
Remarks: Based on test data

: Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on test data

: Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative  
Remarks: Based on test data

: Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative  
Remarks: Based on test data

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo)

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	cytogenetic assay)
	Species: Rat
	Application Route: inhalation (vapour)
	Result: negative
	Remarks: Based on test data
	Test Type: Rodent dominant lethal test (germ cell) (in vivo)
	Species: Rat
	Application Route: Ingestion
	Result: negative
	Remarks: Based on test data
Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
	<b>Dimethylbis[(1-oxoneodecyl)oxy]stannane:</b>
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)
	Method: OECD Test Guideline 471
	Result: negative
	<b>Carcinogenicity</b>
	Not classified based on available information.
	<b>Reproductive toxicity</b>
	Not classified based on available information.
	<b>Components:</b>
	<b>Methyltri(ethylmethylketoxime)silane:</b>
Effects on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
	Species: Rat, male and female
	Application Route: Ingestion
	Symptoms: No effects on fertility
	Remarks: Based on test data
Effects on foetal development	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
	Species: Rat, male and female
	Application Route: Ingestion
	Symptoms: No effects on foetal development
	Remarks: Based on test data
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
	<b>N-(3-(Trimethoxysilyl)propyl)ethylenediamine:</b>
Effects on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
	Application Route: Ingestion
	Symptoms: No effects on fertility
	Remarks: Based on test data
Effects on foetal development	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test

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	Application Route: Ingestion Symptoms: No effects on foetal development Remarks: Based on test data
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
<b>Octamethylcyclotetrasiloxane:</b>	
Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: inhalation (vapour) Symptoms: Effects on fertility Remarks: Based on test data
Effects on foetal development	: Test Type: Prenatal development toxicity study (teratogenicity) Species: Rabbit Application Route: inhalation (vapour) Symptoms: No effects on foetal development Remarks: Based on test data
Reproductive toxicity - Assessment	: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
<b>Dimethylbis[(1-oxoneodecyl)oxy]stannane:</b>	
Reproductive toxicity - Assessment	: Some evidence of adverse effects on development, based on animal experiments.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:****Methyltri(ethylmethylketoxime)silane:**

Exposure routes: Ingestion  
Target Organs: Blood  
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

**Vinyltri (methylethylketoxime) silane:**

Exposure routes: Ingestion  
Target Organs: Blood  
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Exposure routes: Ingestion  
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

**Octamethylcyclotetrasiloxane:**

Exposure routes: Ingestion  
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg

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bw or less.

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

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

Exposure routes: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

**Dimethylbis[(1-oxoneodecyl)oxy]stannane:**

Exposure routes: Ingestion

Target Organs: Immune system, Central nervous system

Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

**Repeated dose toxicity****Components:****Methyltri(ethylmethylketoxime)silane:**

Species: Rat

Application Route: Ingestion

Target Organs: Blood

Remarks: Based on test data

**Vinyltri (methylethylketoxime) silane:**

Species: Rat

Application Route: Ingestion

Target Organs: Blood

Remarks: Based on data from similar materials

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Application Route: Ingestion

Remarks: Based on test data

**Octamethylcyclotetrasiloxane:**

Species: Rat

Application Route: Ingestion

Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapour)

Remarks: Based on test data

Species: Rabbit

Application Route: Skin contact

Remarks: Based on test data

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

Species: Rat  
 Application Route: Ingestion  
 Target Organs: Blood  
 Remarks: Based on data from similar materials

**Dimethylbis[(1-oxoneodecyl)oxy]stannane:**

Species: Rat  
 NOAEL: < 1.6 mg/kg  
 Application Route: Ingestion  
 Exposure time: 90 Days  
 Remarks: Based on data from similar materials

**Aspiration toxicity**

Not classified based on available information.

**Further information**
**Product:**

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumour rates.

**Components:**
**Octamethylcyclotetrasiloxane:**

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**Methyltri(ethylmethylketoxime)silane:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 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)): > 120 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 94 mg/l

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	Exposure time: 72 h
	Method: OECD Test Guideline 201
	Remarks: Based on data from similar materials
Ecotoxicology Assessment	
Acute aquatic toxicity	: This product has no known ecotoxicological effects.
<b>N-(3-(Trimethoxysilyl)propyl)ethylenediamine:</b>	
Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 597 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia sp.): 81 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 8.8 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Selenastrum capricornutum (green algae)): 3.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia sp.): > 1 mg/l Exposure time: 21 d
Toxicity to bacteria	: EC50 (Pseudomonas putida): 67 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
<b>Octamethylcyclotetrasiloxane:</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia sp.): > 0.015 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility
Toxicity to algae	: EC50: > 0.022 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
	NOEC: 0.022 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	: NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic)	: NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l Exposure time: 21 d

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Acute toxicity) Remarks: No toxicity at the limit of solubility

Toxicity to bacteria : IC50: > 10,000 mg/l  
Method: ISO 8192

**Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

**Dimethylbis[(1-oxoneodecyl)oxy]stannane:****Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

**Persistence and degradability****Components:****Methyltri(ethylmethylketoxime)silane:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 14.5 %  
Exposure time: 21 d  
Method: OECD Test Guideline 302B  
Remarks: Based on data from similar materials

**Vinyltri (methylethylketoxime) silane:**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 s

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 39 %  
Method: OECD Test Guideline 301A

Stability in water : Degradation half life: 0.025 h (24.7 °C) pH: 7  
Method: OECD Test Guideline 111

**Octamethylcyclotetrasiloxane:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 3.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 310

Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7  
Method: OECD Test Guideline 111

**Dimethylbis[(1-oxoneodecyl)oxy]stannane:**

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential****Components:****Methyltri(ethylmethylketoxime)silane:**

Partition coefficient: n- : log Pow: 11.2  
octanol/water

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||

**N-(3-(Trimethoxysilyl)propyl)ethylenediamine:**

|| Partition coefficient: n- : log Pow: -0.3  
|| octanol/water

||

**Octamethylcyclotetrasiloxane:**

|| Partition coefficient: n- : log Pow: 6.48 (25.1 °C)  
|| octanol/water

**Mobility in soil**

No data available

**Other adverse effects****Components:****Octamethylcyclotetrasiloxane:**

|| Results of PBT and vPvB : Remarks: Octamethylcyclotetrasiloxane (D4) meets the cur-  
|| assessment : assessment : rent REACH Annex XIII criteria for PBT and vPvB. In Canada,  
|| : : D4 has been assessed and deemed to meet the PiT criteria.  
|| : : However, D4 does not behave similarly to known PBT/vPvB  
|| : : substances. The weight of scientific evidence from field stud-  
|| : : ies shows that D4 is not biomagnifying in aquatic and terres-  
|| : : trial food webs. D4 in air will degrade by reaction with naturally  
|| : : occurring hydroxyl radicals in the atmosphere. Any D4 in air  
|| : : that does not degrade by reaction with hydroxyl radicals is not  
|| : : expected to deposit from the air to water, to land, or to living  
|| : : organisms.

**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 han-  
|| : : dling site for recycling or disposal.  
|| : : If not otherwise specified: Dispose of as unused product.

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

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

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Not applicable for product as supplied.

**National Regulations****ADG**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Prohibition/Licensing Requirements : Dimethylbis[(1-oxoneodecyl)oxy]stannane  
Refer to model WHS Act and Regulations for prohibition, authorisation and restricted use.

**The components of this product are reported in the following inventories:**

NZIoC : All ingredients listed or exempt.

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

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).

**SECTION 16. OTHER INFORMATION****Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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**Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
AU OEL	: Australia. Workplace Exposure Standards for Airborne Contaminants.
DCC OEL	: Dow Corning Guide
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
AU OEL / TWA	: Exposure standard - time weighted average
AU OEL / STEL	: Exposure standard - short term exposure limit
DCC OEL / TWA	: Time weighted average

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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; 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

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 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.

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