

This safety data sheet was created pursuant to the requirements of:

Canada WHMIS which includes the amended Hazardous Products Act (HPA) and the

Hazardous Products Regulation (HPR)

GREENFORCE(TM)Revision date30-Oct-2025Revision Number1.01Supersedes date10-Feb-2023

## 1. Identification

**Product identifier** 

Product Name GREENFORCE(TM)

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended use**Adhesives and/or sealants

Restrictions on use No information available

Details of the supplier of the safety data sheet

Responsible Party
Bostik Canada Limited

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Becancour Quebec

G9H 2Y8 Canada

E-mail

Phone: +1 (514) 593-0418 Fax: +1 (514) 593-0413 **Manufacturer Address** 

Bostik Inc.

11320 W. Watertown Plank Road Wauwatosa, Wisconsin 53226 USA

Phone: +1(800) 726-7845 (Domestic Toll Free) Phone: +1 (414) 774-2250 (International)

For regulatory and SDS-related questions, please contact a Bostik representative at

https://www.bostik.com/us/en\_US/customer-support/

Emergency telephone number

CHEMTREC (Chemical Transportation Emergency Center)

Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)

Rocky Mountain Poison Center: 1-866-767-5089

## 2. Hazard(s) identification

## Classification of the substance or mixture

Skin sensitization	Category 1
Reproductive toxicity	Category 1B

Label elements



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#### **Danger**

#### **Hazard statements**

May cause an allergic skin reaction. May damage fertility or the unborn child.

### **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust, fume, gas, mist, vapors and spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see supplemental first aid instructions on this label).

#### Skin

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

If skin irritation or rash occurs: Get medical advice and attention.

Take off contaminated clothing and wash it before reuse.

### **Precautionary Statements - Storage**

Store locked up.

### **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

## Other information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

### Substance

Not applicable.

## Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
				date exemption granted
			registry number	(if applicable)
			(HMIRA registry #)	
Limestone	1317-65-3	45 - <70	-	-
Carbonic acid, calcium salt (1:1)	471-34-1	1 - <5	-	-
Trimethoxyvinylsilane	2768-02-7	0.5 - <1.5	-	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - <1	-	=
Quartz	14808-60-7	0.1 - <1	-	-
Tin, dibutylbis(2,4-pentanedionato-O,O')-,	22673-19-4	0.1 - <1	-	-
(OC-6-11)-				

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

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## 4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. If medical advice is needed, have

product container or label at hand.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** May cause sensitization by skin contact. May cause an allergic skin reaction. Wash with

soap and water. Take off contaminated clothing and wash before reuse. In the case of skin

irritation or allergic reactions see a physician.

**Ingestion** Small amounts of toxic methanol are released by hydrolysis. Rinse mouth thoroughly with

water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If symptoms persist, call a physician. If swallowed, call a poison

control center or physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms None known. May cause allergic skin reaction. Symptoms of allergic reaction may include

rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness,

lightheadedness, chest pain, muscle pain, or flushing. Hives. Itching.

Effects of Exposure May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

Indication of any immediate medical attention and special treatment needed

Note to physicians Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released,

when the product is exposed to moisture or water. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media Full water jet.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors. Product is or

contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Silicon dioxide.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and Wear self contained breathing apparatus for fire fighting if necessary. Use personal

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precautions for fire-fighters protection equipment.

## 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Do not touch or walk through spilled

material. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Contain and collect spillage with

non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Use personal protective equipment as required. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer

to properly labeled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards Residues which cannot be recycled are disposed of as chemical waste. Equipment cleaned

with organic solvent, washings are collected and disposed of as solvent waste.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

## Precautions for safe handling

hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash

before reuse. Remove contaminated clothing and shoes.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Handle in accordance with good industrial

hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash hands and face before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Regular

cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Keep

away from food, drink and animal feeding stuffs.

Recommended storage temperature Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

### 8. Exposure controls/personal protection

## Control Parameters

**Exposure Limits** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. This product contains substances which in their raw state are powder form, however

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in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

Chemical name	Alberta	British Columbia	Ontario	Quebec
Limestone	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ; total	-	TWAEV: 10 mg/m3; total
1317-65-3	-	dust		dust
		TWA: 3 mg/m <sup>3</sup> ;		
		respirable fraction		
		STEL: 20 mg/m <sup>3</sup> ;		
Carbonic acid, calcium salt (1:1)	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ; total	-	TWAEV: 10 mg/m <sup>3</sup> ; total
471-34-1		dust		dust
		TWA: 3 mg/m³;		
		respirable fraction		
		STEL: 20 mg/m <sup>3</sup> ;		
Trimethoxyvinylsilane	-	-	STEL: 10 ppm;	-
2768-02-7			STEL: 60 mg/m <sup>3</sup> ;	
Quartz	TWA: 0.025 mg/m <sup>3</sup> ;	TWA: 0.025 mg/m <sup>3</sup> ;	TWA: 0.10 mg/m <sup>3</sup>	TWAEV: 0.05 mg/m <sup>3</sup> ;
14808-60-7	respirable particulate	respirable		respirable dust
Tin,	TWA: 0.1 mg/m <sup>3</sup> ;	TWA: 0.1 mg/m <sup>3</sup> ;	TWA: 0.1 mg/m <sup>3</sup> ;	-
dibutylbis(2,4-pentanedionato-O	STEL: 0.2 mg/m <sup>3</sup> ;	STEL: 0.2 mg/m <sup>3</sup> ;	STEL: 0.2 mg/m <sup>3</sup> ;	
,O')-, (OC-6-11)-	pSk	Sk	dSk	
22673-19-4				

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Quartz	TWA: 0.025 mg/m³; respirable particulate matter	TWA: 0.025 mg/m³; respirable fraction	TWA: 0.025 mg/m³; respirable particulate matter	TWA: 0.025 mg/m³; respirable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Limestone	TWA: 10 mg/m <sup>3</sup> ;		TWA: 10 mg/m <sup>3</sup> ;	TWA: 30 mppcf;
	STEL: 20 mg/m <sup>3</sup> ;		STEL: 20 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ;
				STEL: 20 mg/m <sup>3</sup> ;
Carbonic acid, calcium salt (1:1)	TWA: 10 mg/m <sup>3</sup> ;		TWA: 10 mg/m <sup>3</sup> ;	TWA: 30 mppcf;
	STEL: 20 mg/m <sup>3</sup> ;		STEL: 20 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ;
	-		-	STEL: 20 mg/m <sup>3</sup> ;
Quartz	TWA: 0.05 mg/m <sup>3</sup> ;	TWA: 0.025 mg/m <sup>3</sup> ;	TWA: 0.05 mg/m <sup>3</sup> ;	TWA: 300 particle/mL;
	respirable fraction	respirable particulate	respirable fraction	
		matter		

Chemical name	Alberta	British Columbia	Ontario	Quebec
Methyl alcohol	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;	TWAEV: 200 ppm;
67-56-1	TWA: 262 mg/m <sup>3</sup> ;	STEL: 250 ppm;	STEL: 250 ppm;	TWAEV: 262 mg/m <sup>3</sup> ;
	STEL: 250 ppm;	Sk	dSk	STEV: 250 ppm;
	STEL: 328 mg/m <sup>3</sup> ;			STEV: 328 mg/m <sup>3</sup> ;
	pSk			Sd

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Methyl alcohol	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;

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Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
	STEL: 250 ppm;	STEL: 250 ppm;	STEL: 250 ppm;	STEL: 250 ppm;
	pSk	pSk	pSk	pSk

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Methyl alcohol	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;	TWA: 200 ppm;
	STEL: 250 ppm;	STEL: 250 ppm;	STEL: 250 ppm;	TWA: 260 mg/m <sup>3</sup> ;
	Sk		pSd	STEL: 250 ppm;
				STEL: 310 mg/m <sup>3</sup> ;
				Sk

## **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Hand protection** Wear suitable chemical resistant gloves. The selection of suitable gloves does not only

depend on the material, but also on further marks of quality and various manufacturers.

**Skin and body protection**Wear suitable protective clothing.

**Respiratory protection**Use appropriate respiratory protection. If exposure limits are exceeded or irritation is

experienced, ventilation and evacuation may be required.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical stateLiquidAppearancePasteColorBeigeOdorFruity

Odor threshold No information available

Property Values Remarks • Method

pH No data available
pH (as aqueous solution) No data available
Melting point / freezing point No data available
Initial boiling point and boiling rangeNo data available

Flash point > 110 °C / 230 °F ASTM D3278

Evaporation rate No data available Flammability No data available

Flammability Limit in Air

Upper flammability or explosive No data available

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Reacts with water

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableRelative vapor densityNo data availableRelative densityNo data available

Water solubility Reacts with water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No data available
No data available
No data available
No data available
No information avai

**Explosive properties**No information available. **Oxidizing properties**No information available.

Other information

Softening point No information available
Molecular weight No information available

**Density** 1.710 g/cm<sup>3</sup>

Bulk density No information available

Solid content (%) 96.8 VOC content 0 g/L

**VOC content** 0 g/L No information available

## 10. Stability and reactivity

**Reactivity** Product cures with moisture.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing

**Conditions to avoid** Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze.

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products Carbon oxides. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and

released upon curing.

## 11. Toxicological information

## Information on likely routes of exposure

**Product Information** 

**Inhalation** Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

**Skin contact** May cause sensitization by skin contact. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Itching. Rashes. Hives.

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Acute toxicity No information available.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) 284,320.70 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapor) 750.10 mg/L
ATEmix (inhalation-dust/mist) >5 mg/L

**Component Information** 

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Carbonic acid, calcium salt (1:1) 471-34-1	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus) OECD 402	LC50 (4h) >3mg/ml (Rattus)
Trimethoxyvinylsilane 2768-02-7	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
N-(3-(trimethoxysilyl)propyl)ethylenedi amine 1760-24-3	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air
Quartz 14808-60-7	=6450 mg/kg (Rattus)	-	-
Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- 22673-19-4	LD50 = 1864 mg/kg (Rattus) OECD 401	LD50 > 2000 mg/kg (Rattus) OECD 402	LC50 4hr: 16.8 mg/l (Rattus) (OECD TG 403)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute	Rabbit				Mild skin irritant
Dermal Irritation/Corrosion		1			

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute	Rabbit	eye		24 hours	Non-irritant
Eye Irritation/Corrosion					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute	Rabbit	eye			Eye Damage
Eye Irritation/Corrosion					

**Respiratory or skin sensitization** May cause an allergic skin reaction.

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Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation	in vitro	Not mutagenic
Test		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation	Mammalian cells in vitro	Negative
Test		
OECD Test No. 476: In Vitro Mammalian Cell	Mammalian cells in vitro	Negative
Gene Mutation Tests using the Hprt and xprt		-
genes		

Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)

Method	Species	Results
	in vitro	Mutagenic
Gene Mutation Tests using the Hprt and xprt		
genes		

Carcinogenicity

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	X
14808-60-7	A2 - Suspected Human	·		
	Carcinogen			
Tin,	A4 - Not Classifiable as	-	-	-
dibutylbis(2,4-pentanedionato-O	a Human Carcinogen			
,O')-, (OC-6-11)-				
22673-19-4				

#### Legend

## **ACGIH (American Conference of Governmental Industrial Hygienists)**

A4 - Not classifiable as a human carcinogen

Reproductive toxicity

Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	Not Classifiable
Toxicity Study with the		
Reproduction/Developmental Toxicity Screening		
Test		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	NOAEL >500 mg/Kg
Toxicity Study with the	Oral	
Reproduction/Developmental Toxicity Screening		

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Test		

Tin, dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)- (22673-19-4)

Method	Species	Results
OECD Test No. 414: Prenatal Development	Rat	Read-across. Reproductive toxicant.
Toxicity Study	Oral	NOAEL: 1 mg/kg bw/day
	in vivo	
OECD Test No. 421:	Rat	Read-across Reproductive toxicant
Reproduction/Developmental Toxicity Screening	Oral	NOAEL 1.9-2.3 mg/kg bw/day
Test	in vivo	

**STOT - single exposure**Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapor		90 days	0.058 NOAEL
Subchronic Inhalation					
Toxicity: 90-day Study					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Subacute oral		28 days	NOAEL >500 mg/kg
Combined Repeated Dose		toxicity gavage		-	
Toxicity Study with the					
Reproduction/Developmen					
tal Toxicity Screening Test					

Aspiration hazard Based on available data, the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Limestone		CL50 (96h)>10000mg/L	-	CE50 (48h) >1000 mg/L
1317-65-3	Algae (Desmondesmus	(Oncorhynchus mykiss)		Daphnia Magna
	subspicatus)			
Carbonic acid, calcium salt (1:1)	IC50 72H Algae >1000	CL50 96H >1000 mg/l	-	EC50 48H Daphnia
471-34-1	mg/l			>1000 mg/l
Trimethoxyvinylsilane	EC 50 (72h) > 957 mg/l		-	EC50(48hr) 168.7mg/l
2768-02-7	(Desmodesmus	(Oncorhynchus mykiss)		(Daphnia magna)
	subspicatus)			
	EU Method C.3			
N-(3-(trimethoxysilyl)propyl)ethy	<del>-</del>	LC50 (96H) =597 mg/L	-	EC50 (48h) =81mg/L
lenediamine		(Danio rerio)Semi-static		Daphnia magna Static
1760-24-3				
Tin,	>2.0 mg/l	>2.0 mg/l	-	EC50 0.0036 mg/l 48Hr

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dibutylbis(2,4-pentanedionato-O ,O')-, (OC-6-11)-		(Daphnia magna)
22673-19-4		

Persistence and degradability

No information available.

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric	-		biodegradable
Respirometry Test (TG 301 F)			_

### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
Limestone	0.9
1317-65-3	
Trimethoxyvinylsilane	1.1
2768-02-7	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
1760-24-3	

Other adverse effects

No information available.

## 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of contents/container in accordance with local, regional, national, and international

regulations as applicable.

Contaminated packaging

Handle contaminated packages in the same way as the product itself.

## 14. Transport information

Note:

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material

**TDG** 

UN number or ID number UN3082

Extended proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-)

Transport hazard class(es) 9
Packing group III
Special Provisions 16, 99

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III

IATA

UN number or ID number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-)

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Transport hazard class(es) 9
Packing group III
ERG Code 9L

Special Provisions A97, A158, A197, A215

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III

**IMDG** 

**UN number or ID number** UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-)

Transport hazard class(es) 9
Packing group III
EmS-No. F-A, S-F

**Special Provisions** 274, 335, 375, 969

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tin,

dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III, Marine pollutant

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **NPRI - National Pollutant Release Inventory**

No component is listed on the NPRI above the threshold

### **International Inventories**

TSCA	Complies
DSL	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

Complies - The components of this product are either listed or exempt from listing on inventory. Active

Not Listed - One or more components of this product are not listed on inventory.

## **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals

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ATE Acute Toxicity Estimate ASTM American Society for the Testing of Materials Biological Reference Values for Chemical Compounds in the Work Area bar BAT Biological tolerance values for occupational exposure BEL Biological exposure limits Body weight bw Maximum limit value Ceiling Carcinogen, Mutagen or Reproductive Toxicant CMR DOT Department of Transportation (United States) DSL Domestic Substances List (Canada) EmS Emergency Schedule **ENCS** Existing and New Chemical Substances (Japan) EPA U.S. Environmental Protection Agency Globally Harmonized System GHS HMIS Hazardous Materials Identification System 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 International Civil Aviation Organization ICAO **IECSC** Inventory of Existing Chemical Substances in China IMDG International Maritime Dangerous Goods IMO International Maritime Organization International Organization for Standardization ISO Korean Existing Chemicals Inventory KECI \_C50 Lethal Concentration to 50% of a test population D50 ethal Dose to 50% of a test population (Median Lethal Dose) MARPOL International Convention for the Prevention of Pollution from Ships NFPA National Fire Protection Association Not Otherwise Specified n.o.s. NOAEC No Observed Adverse Effect Concentration NOAEL No Observed Adverse Effect Level NOELR No Observable Effect Loading Rate New Zealand Inventory of Chemicals NZIoC OECD Organization for Economic Cooperation and Development OEL Occupational exposure limits Persistent, Bioaccumulative and Toxic substance PBT PICCS Philippines Inventory of Chemicals and Chemical Substances Persistent, Mobile and Toxic PMT PPE Personal protective equipment Quantitative Structure Activity Relationship QSAR RID Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) SADT Self-Accelerating Decomposition Temperature SAR Structure-activity relationship Safety Data Sheet SDS Surface Limit SL Short Term Exposure Limit STEL STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure Taiwan Chemical Substance Inventory TCSI TDG Transport of Dangerous Goods (Canada) Toxic Substances Control Act (United States) TSCA TWA Time-Weighted Average UN United Nations

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VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
Sen+	Sensitizer
Sk*	Skin designation
**	Hazard Designation

## Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set United Nations World Health Organization (WHO)

Prepared By Product Stewardship and Regulatory Affairs.

Revision date 30-Oct-2025

**Revision Note** SDS sections updated. 3. 4. 9. 11.

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at

https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-manag ement/medical-device-policy/ which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design,

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manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

**End of Safety Data Sheet** 

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