

## SAFETY DATA SHEET

**DOW CHEMICAL (AUSTRALIA) PTY LTD** 

Product name: DOWSIL™ 580 (AUS) Glass, Metal and Masonry Issue Date: 01.09.2020

**Sealant White** 

Print Date: 02.09.2020

DOW CHEMICAL (AUSTRALIA) PTY LTD encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product name: DOWSIL™ 580 (AUS) Glass, Metal and Masonry Sealant White

Recommended use of the chemical and restrictions on use

**Identified uses:** Adhesive, binding agents

**COMPANY IDENTIFICATION** 

DOW CHEMICAL (AUSTRALIA) PTY LTD LEVEL 29 367 COLLINS STREET MELBOURNE VIC 3000 AUSTRALIA

Customer Information Number: 1800-780-074

SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER** 

**24-Hour Emergency Contact:** 1800-033-882 **Local Emergency Contact:** 1800-033-882

For advice, contact a doctor (at once) or the Australian Poisons Information Centre: 131 126

**Transport Emergency Only Dial 000** 

## SECTION 2: HAZARD(S) IDENTIFICATION

#### **GHS Classification**

Serious eye damage/eye irritation - Category 2A Skin sensitisation - Category 1

GHS label elements Hazard pictograms



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Signal word: WARNING!

#### **Hazard statements**

May cause an allergic skin reaction. Causes serious eye irritation.

## **Precautionary statements**

#### Prevention

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

Wear protective gloves/ eye protection/ face protection.

## Response

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

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

If eye irritation persists: Get medical advice and/or attention.

Wash contaminated clothing before reuse.

## **Disposal**

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

#### Other hazards

No data available

# SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

This product is a mixture.

Component	CASRN	Concentration	
Calcium carbonate treated with stearic acid	Not available	>= 36.0 - <= 47.0 %	
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 2.0 - <= 7.0 %	
Silicon dioxide	7631-86-9	>= 3.0 - <= 6.0 %	
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	22984-54-9	>= 2.0 - <= 5.0 %	
Titanium dioxide	13463-67-7	>= 0.2 - <= 1.3 %	

N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine	1760-24-3	>= 0.5 - <= 1.2 %
Vinyltri (methylethylketoxime) silane	2224-33-1	>= 0.14 - <= 0.7 %
Methyltri(ethylmethylketoxime)sila ne isomers and oligomers	Not available	>= 0.28 - <= 0.5 %
Quartz	14808-60-7	>= 0.29 - <= 0.48 %
Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)s tannane	68928-76-7	>= 0.04 - <= 0.15 %

## **SECTION 4: FIRST AID MEASURES**

## Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air and keep comfortable for breathing; consult a physician.

**Skin contact:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation or rash occurs. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

## Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

## Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

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## **SECTION 5: FIREFIGHTING MEASURES**

#### **Hazchem Code**

None Allocated

## **Extinguishing media**

**Suitable extinguishing media:** Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media: None known...

## Special hazards arising from the substance or mixture

**Hazardous combustion products:** Metal oxides. Formaldehyde. Carbon oxides. Silicon oxides. Nitrogen oxides (NOx).

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health..

## Advice for firefighters

**Fire Fighting Procedures:** Use water spray to cool unopened containers. Evacuate area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.. Use personal protective equipment..

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** Wipe up or scrape up and contain for salvage or disposal. 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. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

See sections: 7, 8, 11, 12 and 13.

# SECTION 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

**Precautions for safe handling:** Do not get on skin or clothing. Do not swallow. Do not get in eyes. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.

Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage:** Keep in properly labelled containers. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Unsuitable materials for containers: Do not store in or use iron or steel containers.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value	
Calcium carbonate treated	Dow IHG	TWA	1 mg/m3	
with stearic acid				
	AU OEL	TWA	10 mg/m3 , Calcium	
			carbonate	
Distillates (petroleum),	AU OEL	TWA Mist	5 mg/m3	
hydrotreated middle				
Silicon dioxide	Dow IHG	TWA Respirable dust	2 mg/m3	
	Dow IHG	TWA Total dust	6 mg/m3	
	AU OEL	TWA Respirable dust	2 mg/m3	
Titanium dioxide	Dow IHG	TWA	2.4 mg/m3	
	ACGIH	TWA	10 mg/m3 , Titanium	
			dioxide	
	Further information: LRT irra a human carcinogen	: Lower Respiratory Tract irrit	ation; A4: Not classifiable as	
	AU OEL	TWA	10 mg/m3	
	Further information: a: This crystalline silica	value is for inhalable dust co	ntaining no asbestos and < 1%	
N-(3-(Trimethoxysilyl)	Dow IHG		See Further information	
propyl)-1,2-ethanediamine				
	Further information: Skin Sensitizer			
Quartz	ACGIH	TWA Respirable	0.025 mg/m3 , Silica	
		particulate matter		
	Further information: lung cancer: Lung cancer; pulm fibrosis: Pulmonary fibrosis; A2:			
	Suspected human carcinogen			
	AU OEL	TWA Respirable dust	0.1 mg/m3	

Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane	ACGIH	TWA	0.1 mg/m3 , Tin
	Further information: A4: No cutaneous absorption	t classifiable as a human card	cinogen; Skin: Danger of
	ACGIH	STEL	0.2 mg/m3 , Tin
	Further information: A4: No cutaneous absorption	t classifiable as a human card	cinogen; Skin: Danger of
	AU OEL	TWA	0.1 mg/m3 , Tin
	Further information: Sk: Sk	in absorption	
	AU OEL	STEL	0.2 mg/m3 , Tin
	Further information: Sk: Sk	in absorption	_
Methanol	ACGIH	TWA	200 ppm
	Further information: Skin: Danger of cutaneous absorption		
	ACGIH	STEL	250 ppm
	Further information: Skin: D	Danger of cutaneous absorption	on
	AU OEL	TWA	262 mg/m3 200 ppm
	Further information: Sk: Sk	in absorption	
	AU OEL	STEL	328 mg/m3 250 ppm
	Further information: Sk: Sk	in absorption	-
Methyl Ethyl Ketoxime	US WEEL	TWA	10 ppm
	Further information: DSEN:	Dermal Sensitization Notation	n
	Dow IHG	TWA	0.15 ppm
	Further information: Skin S	ensitizer	

The following substance(s), which have Occupational Exposure Limit(s) (OEL), may be formed during handling or processing:

Methanol.

Methyl ethyl ketoxime

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

**Biological occupational exposure limits** 

Components	CAS-No.	Control	ntrol Biological Sampling	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
Methanol	67-56-1	Methanol	Urine	End of	15 mg/l	ACGIH
				shift (As		BEI
				soon as		
				possible		
				after		
			exposure			
				ceases)		

## **Exposure controls**

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

## Individual protection measures

**Eye/face protection:** Use chemical goggles.

**Skin protection** 

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Hand protection: Use chemical resistant gloves classified under standard AS/NZS 2161.10: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to AS/NZS 2161.10) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to AS/NZS 2161.10) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. When respiratory protection is required, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

**Other Information:** Selection and use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian/New Zealand Standards, including:

AS/NZS 1336: Eye and face protection – Guidelines.

AS/NZS 1337: Personal eye protection - Eye and face protectors for occupational applications.

AS/NZS 1715: Selection, use and maintenance of respiratory protective equipment.

AS/NZS 2161: Occupational protective gloves. AS/NZS 2210: Occupational protective footwear. AS/NZS 4501: Occupational protective clothing Set

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** 

Physical state paste
Color white
Odor slight

Odor Threshold

pH

Not applicable

Melting point/range

No data available

No data available

No data available

No data available

Not applicable

Flash point

Not applicable

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Evaporation Rate (Butyl Acetate Not applicable

= 1)

Flammability (solid, gas) Not classified as a flammability hazard

Lower explosion limitNo data availableUpper explosion limitNo data availableVapor PressureNot applicableRelative Vapor Density (air = 1)No data available

Relative Density (water = 1) 1.38

Water solubility No data available Partition coefficient: n- No data available

octanol/water

Auto-ignition temperatureNo data availableDecomposition temperatureNo data availableDynamic ViscosityNot applicableKinematic ViscosityNot applicableExplosive propertiesNot explosive

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

Molecular weightNo data availableParticle sizeNo data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Can react with strong oxidizing agents.

Conditions to avoid: Do not expose to temperatures above 212 °F/100 °C. Exposure to moisture

Incompatible materials: Oxidizing agents

## Hazardous decomposition products:

Decomposition products can include and are not limited to: Formaldehyde. Methyl Ethyl Ketoxime. Methanol.

## SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

#### **Exposure routes**

Eye contact, Skin contact, Ingestion.

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## Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

## **Acute oral toxicity**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause abdominal discomfort or diarrhea.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):

LD50, Rat, > 5,000 mg/kg Estimated.

## Information for components:

#### Calcium carbonate treated with stearic acid

Single dose oral LD50 has not been determined.

For similar material(s): LD50, Rat, > 2,000 mg/kg No deaths occurred at this concentration.

## Distillates (petroleum), hydrotreated middle

LD50, Rat, > 5,000 mg/kg

## Silicon dioxide

LD50, Rat, > 5,000 mg/kg

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

LD50, Rat, male and female, 2,463 mg/kg OECD Test Guideline 401

#### Titanium dioxide

LD50, Rat, > 10,000 mg/kg

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

LD50, Rat, male and female, 2,295 mg/kg OPPTS 870.1100

## Vinyltri (methylethylketoxime) silane

LD50, Rat, > 2,000 mg/kg

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s): LD50, Rat, male and female, 2,463 mg/kg OECD Test Guideline 401

## Quartz

Single dose oral LD50 has not been determined.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

LD50, Rat, male and female, 892 mg/kg OECD 401 or equivalent

## **Acute dermal toxicity**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

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Based on information for component(s):

LD50, > 2,000 mg/kg Estimated.

## Information for components:

#### Calcium carbonate treated with stearic acid

The dermal LD50 has not been determined.

LD50, Rat, > 2,000 mg/kg Estimated.

## Distillates (petroleum), hydrotreated middle

LD50, Rabbit, > 3,160 mg/kg No deaths occurred at this concentration.

#### Silicon dioxide

LD50, Rabbit, > 5,000 mg/kg

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

LD50, Rat, male and female, > 2,000 mg/kg OECD Test Guideline 402 No deaths occurred at this concentration.

## **Titanium dioxide**

LD50, Rabbit, 10,000 mg/kg

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

#### Vinyltri (methylethylketoxime) silane

LD50, Rat, > 2,000 mg/kg

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s): LD50, Rat, male and female, > 2,000 mg/kg OECD Test Guideline 402 No deaths occurred at this concentration.

#### Quartz

The dermal LD50 has not been determined.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

LD50, Rat, > 2,000 mg/kg

## Acute inhalation toxicity

Brief exposure (minutes) is not likely to cause adverse effects. Vapor from heated material may cause respiratory irritation.

As product: The LC50 has not been determined.

#### Information for components:

#### Calcium carbonate treated with stearic acid

Dust may cause irritation to upper respiratory tract (nose and throat).

The LC50 has not been determined.

## Distillates (petroleum), hydrotreated middle

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LC50, Rat, 4 Hour, dust/mist, > 5.2 mg/l

#### Silicon dioxide

Maximum attainable concentration. LC50, Rat, 4 Hour, dust/mist, > 2.08 mg/l No deaths occurred at this concentration.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

The LC50 has not been determined.

#### Titanium dioxide

LC50, Rat, male, 4 Hour, dust/mist, > 6.82 mg/l No deaths occurred at this concentration.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

LC50, Rat, 4 Hour, dust/mist, 1.49 - 2.44 mg/l OECD Test Guideline 403

## Vinyltri (methylethylketoxime) silane

The LC50 has not been determined.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

The LC50 has not been determined.

#### Quartz

The LC50 has not been determined.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

As product: The LC50 has not been determined.

#### Skin corrosion/irritation

Based on information for component(s):

Brief contact may cause slight skin irritation with local redness.

May cause drying and flaking of the skin.

## Information for components:

#### Calcium carbonate treated with stearic acid

Essentially nonirritating to skin.

May cause drying and flaking of the skin.

## Distillates (petroleum), hydrotreated middle

Brief contact may cause slight skin irritation with local redness.

#### Silicon dioxide

Brief contact is essentially nonirritating to skin.

May cause skin irritation due to mechanical abrasion.

May cause drying and flaking of the skin.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

Brief contact may cause slight skin irritation with local redness.

## **Titanium dioxide**

Essentially nonirritating to skin.

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#### N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

Brief contact may cause moderate skin irritation with local redness.

#### Vinyltri (methylethylketoxime) silane

Brief contact may cause slight skin irritation with local redness.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

Brief contact may cause slight skin irritation with local redness.

#### Quartz

May cause skin irritation due to mechanical abrasion.

May cause drying and flaking of the skin.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Brief contact may cause skin irritation with local redness.

#### Serious eye damage/eye irritation

Based on information for component(s):

May cause moderate eye irritation.

May cause corneal injury.

#### Information for components:

## Calcium carbonate treated with stearic acid

May cause slight temporary eye irritation.

Dust may irritate eyes.

#### Distillates (petroleum), hydrotreated middle

May cause slight eye irritation.

#### Silicon dioxide

Solid or dust may cause irritation or corneal injury due to mechanical action.

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

May cause slight eye irritation.

May cause slight corneal injury.

#### **Titanium dioxide**

Solid or dust may cause irritation due to mechanical action.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

## Vinyltri (methylethylketoxime) silane

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

May cause slight eye irritation.

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#### Quartz

Solid or dust may cause irritation or corneal injury due to mechanical action.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

May cause slight eye irritation.

May cause slight temporary corneal injury.

#### Sensitization

For skin sensitization:

Contains component(s) which have caused allergic skin sensitization in guinea pigs. Contains component(s) which have demonstrated the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

## Information for components:

#### Calcium carbonate treated with stearic acid

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

## Distillates (petroleum), hydrotreated middle

For similar material(s):

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### Silicon dioxide

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

For skin sensitization:

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## **Titanium dioxide**

Did not demonstrate the potential for contact allergy in mice.

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

Has caused allergic skin reactions when tested in guinea pigs.

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For respiratory sensitization:

No relevant data found.

## Vinyltri (methylethylketoxime) silane

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For skin sensitization:

For similar material(s):

Has demonstrated the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

#### Quartz

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### **Specific Target Organ Systemic Toxicity (Single Exposure)**

Available data are inadequate to determine single exposure specific target organ toxicity.

#### Information for components:

#### Calcium carbonate treated with stearic acid

Available data are inadequate to determine single exposure specific target organ toxicity.

## Distillates (petroleum), hydrotreated middle

Available data are inadequate to determine single exposure specific target organ toxicity.

#### Silicon dioxide

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Titanium dioxide

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

Available data are inadequate to determine single exposure specific target organ toxicity.

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## Vinyltri (methylethylketoxime) silane

Available data are inadequate to determine single exposure specific target organ toxicity.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## Quartz

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Available data are inadequate to determine single exposure specific target organ toxicity.

#### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

## Information for components:

#### Calcium carbonate treated with stearic acid

Based on physical properties, not likely to be an aspiration hazard.

## Distillates (petroleum), hydrotreated middle

May be fatal if swallowed and enters airways.

## Silicon dioxide

Based on physical properties, not likely to be an aspiration hazard.

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

Based on available information, aspiration hazard could not be determined.

#### Titanium dioxide

Based on physical properties, not likely to be an aspiration hazard.

## N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

Based on available information, aspiration hazard could not be determined.

#### Vinyltri (methylethylketoxime) silane

Based on available information, aspiration hazard could not be determined.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

Based on available information, aspiration hazard could not be determined.

#### Quartz

Based on physical properties, not likely to be an aspiration hazard.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Based on physical properties, not likely to be an aspiration hazard.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

## Specific Target Organ Systemic Toxicity (Repeated Exposure)

Contains component(s) which have been reported to cause effects on the following organs in animals:

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Blood

Respiratory tract.

Contains an additional component(s) that is not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.

## Information for components:

## Calcium carbonate treated with stearic acid

Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

## Distillates (petroleum), hydrotreated middle

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

#### Silicon dioxide

No relevant data found.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

For similar material(s):

In animals, effects have been reported on the following organs:

Blood

#### **Titanium dioxide**

Repeated excessive inhalation exposures to dusts may cause respiratory effects.

In animals, effects have been reported on the following organs:

Luna.

Due to the physical state of the material, this component is not expected to be bioavailable under normal handling and processing conditions.

#### N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

In animals, effects have been reported on the following organs:

Respiratory tract.

#### Vinyltri (methylethylketoxime) silane

In animals, effects have been reported on the following organs:

Blood.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

In animals, effects have been reported on the following organs:

Blood

## **Quartz**

In humans, effects have been reported on the following organs:

Kidney.

Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

Due to the physical state of the material, this component is not expected to be bioavailable under normal handling and processing conditions.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

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In animals, effects have been reported on the following organs:

Blood Kidney

Liver

Immune system.

#### Carcinogenicity

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. Contains an additional component(s) that is not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.

## Information for components:

#### Calcium carbonate treated with stearic acid

No relevant data found.

#### Distillates (petroleum), hydrotreated middle

For similar material(s): Did not cause cancer in laboratory animals.

#### Silicon dioxide

No relevant data found.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

No relevant data found.

#### Titanium dioxide

Lung fibrosis and tumors have been observed in rats exposed to titanium dioxide in two lifetime inhalation studies. Effects are believed to be due to overloading of the normal respiratory clearance mechanisms caused by the extreme study conditions. Workers exposed to titanium dioxide in the workplace have not shown an unusual incidence of chronic respiratory disease or lung cancer. Titanium dioxide was not carcinogenic in laboratory animals in lifetime feeding studies. Due to the physical state of the material, this component is not expected to be bioavailable under normal handling and processing conditions.

#### N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

No relevant data found.

#### Vinyltri (methylethylketoxime) silane

No relevant data found.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

No relevant data found.

## Quartz

Has caused cancer in humans. Has caused cancer in laboratory animals. Due to the physical state of the material, this component is not expected to be bioavailable under normal handling and processing conditions.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

No relevant data found.

## **Teratogenicity**

**Sealant White** 

Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

## Information for components:

## Calcium carbonate treated with stearic acid

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

#### Distillates (petroleum), hydrotreated middle

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

#### Silicon dioxide

No relevant data found.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

## **Titanium dioxide**

No relevant data found.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

Did not cause birth defects in laboratory animals.

## Vinyltri (methylethylketoxime) silane

No relevant data found.

#### Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s): Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

## Quartz

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

No relevant data found.

## Reproductive toxicity

Contains component(s) which did not interfere with reproduction in animal studies. Contains component(s) which did not interfere with fertility in animal studies.

## Information for components:

#### Calcium carbonate treated with stearic acid

For similar material(s): In animal studies, did not interfere with fertility. In animal studies, did not interfere with reproduction.

#### Distillates (petroleum), hydrotreated middle

For similar material(s): In animal studies, did not interfere with reproduction.

## Silicon dioxide

**Sealant White** 

No relevant data found.

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

For similar material(s): In animal studies, did not interfere with reproduction.

#### **Titanium dioxide**

No relevant data found.

## N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

In animal studies, did not interfere with reproduction.

## Vinyltri (methylethylketoxime) silane

No relevant data found.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s): In animal studies, did not interfere with fertility. In animal studies, did not interfere with reproduction.

#### Quartz

No relevant data found.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

No relevant data found.

#### Mutagenicity

Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others. Genetic toxicity studies in animals were negative for component(s) tested.

#### Information for components:

## Calcium carbonate treated with stearic acid

For similar material(s): In vitro genetic toxicity studies were negative.

## Distillates (petroleum), hydrotreated middle

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## Silicon dioxide

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

For similar material(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### **Titanium dioxide**

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

#### N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## Vinyltri (methylethylketoxime) silane

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Sealant White** 

#### Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

#### Quartz

In vitro genetic toxicity studies were negative in some cases and positive in other cases.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological information appears in this section when such data is available.

#### **Ecotoxicity**

#### Calcium carbonate treated with stearic acid

Acute toxicity to fish

No relevant data found.

#### Distillates (petroleum), hydrotreated middle

## Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LL50, Scophthalmus maximus (turbot), 96 Hour, > 1,028 mg/l, Test substance: Water Accommodated Fraction

#### Acute toxicity to aquatic invertebrates

LL50, Acartia tonsa, 48 Hour, > 3,193 mg/l, Test substance: Water Accommodated Fraction

#### Acute toxicity to algae/aquatic plants

EL50, Skeletonema costatum (marine diatom), 72 Hour, > 10,000 mg/l, Test substance: Water Accommodated Fraction

#### Toxicity to bacteria

EC50, 3 Hour, > 100 mg/l, OECD Test Guideline 209

#### Chronic toxicity to aquatic invertebrates

NOELR, Ceriodaphnia dubia (water flea), 8 d, > 100 mg/l, Test substance: Water Accommodated Fraction

## Silicon dioxide

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Danio rerio (zebra fish), 96 Hour, 5,000 - 10,000 mg/l

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 24 Hour, > 1,000 mg/l

**Sealant White** 

#### Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Biomass, 440 mg/l

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

## Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis

(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

For similar material(s):

LC50, Fathead minnow (Pimephales promelas), Static, 96 Hour, 843 mg/l, OECD Test Guideline 203

For similar material(s):

LC50, Oryzias latipes (Japanese medaka), Static, 96 Hour, > 100 mg/l, OECD Test Guideline 203

## Acute toxicity to aquatic invertebrates

For similar material(s):

EC50, Daphnia magna (Water flea), static test, 48 Hour, 201 mg/l, OECD Test Guideline 202

## Acute toxicity to algae/aquatic plants

For similar material(s):

NOEC, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 2.6 mg/l,

OECD Test Guideline 201

For similar material(s):

EC50, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 16 mg/l, OECD Test Guideline 201

#### Toxicity to bacteria

For similar material(s):

EC50, activated sludge, 3 Hour, Respiration rates., > 390.45 mg/l, OECD Test Guideline 209

## Chronic toxicity to fish

For similar material(s):

NOEC, Oryzias latipes (Orange-red killifish), flow-through test, 14 d, mortality, 50 mg/l

#### Chronic toxicity to aquatic invertebrates

For similar material(s):

NOEC, Daphnia magna, semi-static test, 21 d, number of offspring, > 100 mg/l

#### **Titanium dioxide**

## Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). NOEC mortality, Leuciscus idus (Golden orfe), static test, 48 Hour, > 1,000 mg/l

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 1,000 mg/l

## Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 100 mg/l, OECD Test Guideline 201

#### Toxicity to bacteria

EC50, 3 Hour, > 1,000 mg/l, OECD Test Guideline 209

**Sealant White** 

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

## Acute toxicity to fish

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

For the hydrolysis product(s)

LC50, zebra fish (Brachydanio rerio), 96 Hour, 597 mg/l

## Acute toxicity to aquatic invertebrates

For the hydrolysis product(s)

EC50, Daphnia magna (Water flea), 48 Hour, 81 mg/l

## Acute toxicity to algae/aquatic plants

For the hydrolysis product(s)

ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 8.8 mg/l

For the hydrolysis product(s)

NOEC, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 3.1 mg/l

## Toxicity to bacteria

For the hydrolysis product(s)

EC50, Pseudomonas putida, 16 Hour, Growth inhibition, 67 mg/l

## Chronic toxicity to aquatic invertebrates

For the hydrolysis product(s)

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, > 1 mg/l

#### **Toxicity to Above Ground Organisms**

Material is moderately toxic to birds on an acute basis (LD50 between 51 and 500 mg/kg).

#### Toxicity to soil-dwelling organisms

NOEC, Eisenia fetida (earthworms), 14 d, >= 1,000 mg/kg

#### Vinvltri (methylethylketoxime) silane

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis

(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 120 mg/l, OECD Test Guideline 203

LC50, Oryzias latipes (Orange-red killifish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis

(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

For the hydrolysis product(s)

LC50, Oncorhynchus mykiss (rainbow trout), Static, 96 Hour, > 120 mg/l, OECD Test Guideline 203

#### Acute toxicity to aquatic invertebrates

For the hydrolysis product(s)

EC50, Daphnia magna (Water flea), static test, 48 Hour, > 120 mg/l, OECD Test Guideline 202

**Sealant White** 

## Acute toxicity to algae/aquatic plants

For the hydrolysis product(s)

EC50, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 94 mg/l, OECD Test Guideline 201

For the hydrolysis product(s)

NOEC, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 30 mg/l, OECD Test Guideline 201

## Chronic toxicity to fish

For similar material(s):

NOEC, Oryzias latipes (Orange-red killifish), flow-through test, 14 d, 50 mg/l

#### Chronic toxicity to aquatic invertebrates

For similar material(s):

NOEC, Daphnia magna, semi-static test, 21 d, > 100 mg/l

#### Quartz

## Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

## Acute toxicity to fish

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

For similar material(s):

LC50, Zebra fish (Danio/Brachydanio rerio), semi-static test, 96 Hour, > 100 mg/l, OECD Test Guideline 203 or Equivalent

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna, static test, 48 Hour, 39 mg/l, OECD Test Guideline 202 or Equivalent

## Acute toxicity to algae/aquatic plants

ErC50, Algae (Scenedesmus subspicatus), Growth rate, 72 Hour, Growth rate, 7.6 mg/l, OECD Test Guideline 201 or Equivalent

For similar material(s):

NOEC, Algae (Scenedesmus subspicatus), Growth rate, 72 Hour, Growth rate, 1.1 mg/l, OECD Test Guideline 201 or Equivalent

## Toxicity to bacteria

For similar material(s):

EC50, Bacteria, 3 Hour, Respiration rates., 14 mg/l

## Persistence and degradability

#### Calcium carbonate treated with stearic acid

Biodegradability: No relevant data found.

## Distillates (petroleum), hydrotreated middle

**Biodegradability:** Material is expected to be readily biodegradable.

10-day Window: Not applicable **Biodegradation:** 74 %

Exposure time: 28 d

**Sealant White** 

Method: OECD Test Guideline 306

Silicon dioxide

**Biodegradability:** Biodegradation is not applicable.

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the

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material is not biodegradable under environmental conditions.

10-day Window: Fail **Biodegradation:** 20 - 28 % **Exposure time:** 28 d

Method: OECD Test Guideline 301C or Equivalent

#### **Titanium dioxide**

Biodegradability: Biodegradation is not applicable.

## N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Fail **Biodegradation:** 39 % **Exposure time:** 28 d

Method: OECD Test Guideline 301A or Equivalent

Theoretical Oxygen Demand: 2.39 mg/mg Estimated.

Chemical Oxygen Demand: 1.76 mg/mg Estimated.

## Biological oxygen demand (BOD)

Incubation Time	BOD
5 d	23 %
10 d	30 %
20 d	29 %

## Stability in Water (1/2-life)

Hydrolysis, half-life, 0.025 Hour, pH 7

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

**Sensitization:** OH radicals **Atmospheric half-life:** 0.088 d

Method: Estimated.

#### Vinyltri (methylethylketoxime) silane

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail **Biodegradation:** 0 %

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**Sealant White** 

Exposure time: 28 d

Method: OECD Test Guideline 301A

#### Stability in Water (1/2-life)

Hydrolysis, DT50, < 1 min, Half-life Temperature 2 °C, OECD Test Guideline 111

#### Methyltri(ethylmethylketoxime)silane isomers and oligomers

Biodegradability: For similar material(s): This material rapidly hydrolyzes to products that

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are either readily or ultimately biodegradable.

10-day Window: Fail **Biodegradation**: 0 % **Exposure time**: 28 d

Method: OECD Test Guideline 301A

#### Quartz

Biodegradability: Biodegradation is not applicable.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Biodegradability: For similar material(s): Material is expected to biodegrade very slowly (in

the environment). Fails to pass OECD/EEC tests for ready biodegradability.

For similar material(s): 10-day Window: Fail

**Biodegradation:** 3 % **Exposure time:** 28 d

Method: OECD Test Guideline 301F or Equivalent

## Bioaccumulative potential

#### Calcium carbonate treated with stearic acid

Bioaccumulation: No relevant data found.

## Distillates (petroleum), hydrotreated middle

Bioaccumulation: No relevant data found.

## Silicon dioxide

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.53

**Bioconcentration factor (BCF): 3.16** 

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): 1.69 Estimated by Structure-Activity

Relationship (SAR).

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): < 3 estimated

## Vinyltri (methylethylketoxime) silane

**Bioaccumulation:** No relevant data found.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

**Bioaccumulation:** For similar material(s): Bioconcentration potential is low (BCF less than

100 or log Pow greater than 7).

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**Sealant White** 

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

Quartz

**Bioaccumulation:** Partitioning from water to n-octanol is not applicable.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

Bioaccumulation: No relevant data found.

**Mobility in Soil** 

## Calcium carbonate treated with stearic acid

No relevant data found.

## Distillates (petroleum), hydrotreated middle

No relevant data found.

#### Silicon dioxide

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 21.73

## 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

No relevant data found.

## N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine

Expected to be relatively immobile in soil (Koc > 5000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient (Koc): > 5000 Estimated.

## Vinyltri (methylethylketoxime) silane

No relevant data found.

#### Methyltri(ethylmethylketoxime)silane isomers and oligomers

No relevant data found.

#### Quartz

No relevant data found.

#### Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

No relevant data found.

#### Results of PBT and vPvB assessment

#### Calcium carbonate treated with stearic acid

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## Distillates (petroleum), hydrotreated middle

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## Silicon dioxide

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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**Sealant White** 

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## **Titanium dioxide**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## Vinyltri (methylethylketoxime) silane

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

#### Methyltri(ethylmethylketoxime)silane isomers and oligomers

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

#### Quartz

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

#### Other adverse effects

## Calcium carbonate treated with stearic acid

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### Distillates (petroleum), hydrotreated middle

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### Silicon dioxide

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### 2-Butanone, O,O',O"-(methylsilylidyne)trioxime

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### **Titanium dioxide**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## N-(3-(TrimethoxysilyI) propyI)-1,2-ethanediamine

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### Vinyltri (methylethylketoxime) silane

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

#### Quartz

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Bis[(2-ethyl-2,5-dimethylhexanoyl)oxy](dimethyl)stannane

**Sealant White** 

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

#### SECTION 14: TRANSPORT INFORMATION

**ADG** 

Not regulated for transport

Not regulated for transport

Consult IMO regulations before transporting ocean bulk

Classification for SEA transport (IMO-IMDG):

Transport in bulk according to Annex I or II of MARPOL 73/78 and the

IBC or IGC Code

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

**Hazchem Code** 

None Allocated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**Sealant White** 

## **SECTION 15: REGULATORY INFORMATION**

#### **Poison Schedule**

Not Scheduled

## Australia Inventory of Chemical Substances (AICS)

All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, AICS, or are exempt.

Prohibition/Licensing Requirements

: Refer to model WHS Act and Regulations for prohibition, authorisation and restricted use.

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## **SECTION 16: ANY OTHER RELEVANT INFORMATION**

#### Revision

Identification Number: 4018243 / A142 / Issue Date: 01.09.2020 / Version: 3.1 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	ACGIH - Biological Exposure Indices (BEI)
AU OEL	Australia. Workplace Exposure Standards for Airborne Contaminants.
Dow IHG	Dow Industrial Hygiene Guideline
STEL	Exposure standard - short term exposure limit
TWA	Time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

## Full text of other abbreviations

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; 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

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