

# SAFETY DATA SHEET

# **DOW CHEMICAL (AUSTRALIA) PTY LTD**

Product name: DOWSIL™ 680 Sanitary Sealant White

Issue Date: 22.04.2021 Print Date: 23.04.2021

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™ 680 Sanitary Sealant White

Recommended use of the chemical and restrictions on use

Identified uses: Construction materials and additives 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 Short-term (acute) aquatic hazard - Category 3 Long-term (chronic) aquatic hazard - Category 3

GHS label elements Hazard pictograms



Signal word: WARNING!

#### **Hazard statements**

May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

#### Prevention

Avoid breathing dust, fume, gas, mist, vapours and/or 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.

Avoid release to the environment.

Wear protective gloves/ eye protection/ face protection.

# Response

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 and/or 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
Silicon dioxide	7631-86-9	>= 7.0 - <= 8.0 %
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	22984-54-9	>= 4.6 - <= 4.8 %
Distillates (petroleum),	64742-46-7	>= 2.8 - <= 3.0 %

hydrotreated middle

Titanium dioxide 13463-67-7 >= 0.68 - <= 1.2 %

Vinyltri (methylethylketoxime) 2224-33-1 >= 1.0 - <= 1.1 %

silane

3-Aminopropyltriethoxysilane 919-30-2 >= 0.94 - <= 0.99 %

Methyltri(ethylmethylketoxime)sila Not available <= 0.48 %

ne isomers and oligomers

Propiconazole 60207-90-1 >= 0.087 - <= 0.45 %

## **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: 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.. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage..

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:** Do not release the product to the aquatic environment above defined regulatory levels. 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. Keep container tightly closed. 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 with local exhaust ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage:** Keep in properly labelled containers. Keep tightly closed. 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
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
Distillates (petroleum),	AU OEL	TWA Mist	5 mg/m3
hydrotreated middle			
Titanium dioxide	Dow IHG	TWA	2.4 mg/m3
	ACGIH	TWA	10 mg/m3 , Titanium
			dioxide
	Further information: LRT irr: Lower Respiratory Tract irritation; A4: Not classifiable as		
	a human carcinogen		
	AU OEL	TWA	10 mg/m3
	Further information: a: This crystalline silica	value is for inhalable dust co	ntaining no asbestos and < 1%
3-Aminopropyltriethoxysilane	Dow IHG	TWA	0.5 mg/m3
Methyl Ethyl Ketoxime	US WEEL	TWA	10 ppm
	Further information: DSEN:	<b>Dermal Sensitization Notatio</b>	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:

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.

#### **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

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: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. 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, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge.

**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

**Evaporation Rate (Butyl Acetate** 

= 1)

Not applicable

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) 0.985

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:** Avoid contact with oxidizing materials.

# **Hazardous decomposition products:**

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

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# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

#### **Exposure routes**

Eye contact, Skin contact, Ingestion.

# 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.

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:

#### 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

## Distillates (petroleum), hydrotreated middle

LD50, Rat, > 5,000 mg/kg

## **Titanium dioxide**

LD50, Rat, > 10,000 mg/kg

#### Vinyltri (methylethylketoxime) silane

LD50, Rat, > 2,000 mg/kg

#### 3-Aminopropyltriethoxysilane

LD50, Rat, female, 1,479 mg/kg

LD50, Rat, male, 2,665 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

## **Propiconazole**

LD50, Rat, 1,411 - 1,517 mg/kg

LD50, Mouse, 1,490 mg/kg

#### Acute dermal toxicity

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

As product: The dermal LD50 has not been determined.

# Based on information for component(s):

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

## Information for components:

#### 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.

## Distillates (petroleum), hydrotreated middle

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

#### Titanium dioxide

LD50, Rabbit, 10,000 mg/kg

## Vinyltri (methylethylketoxime) silane

LD50, Rat, > 2,000 mg/kg

#### 3-Aminopropyltriethoxysilane

Based on product testing: LD50, Rabbit, male and female, 4,041 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.

## **Propiconazole**

LD50, Rabbit, > 6,000 mg/kg

LD50, Rat, > 4,000 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:

#### 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.

#### Distillates (petroleum), hydrotreated middle

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

## **Titanium dioxide**

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

## Vinyltri (methylethylketoxime) silane

The LC50 has not been determined.

## 3-Aminopropyltriethoxysilane

Based on product testing: LC50, Rat, male, 6 Hour, vapour, > 5 ppm No deaths occurred at this concentration.

Based on product testing: LC50, Rat, female, 6 Hour, vapour, > 16 ppm No deaths occurred at this concentration.

Based on product testing: LC50, Rat, male and female, 4 Hour, Aerosol, > 7.35 mg/l

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

The LC50 has not been determined.

#### **Propiconazole**

LC50, Rat, 4 Hour, dust/mist, > 5.8 mg/l

#### 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:

#### 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.

#### Distillates (petroleum), hydrotreated middle

Brief contact may cause slight skin irritation with local redness.

#### **Titanium dioxide**

Essentially nonirritating to skin.

## Vinyltri (methylethylketoxime) silane

Brief contact may cause slight skin irritation with local redness.

# 3-Aminopropyltriethoxysilane

Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

Brief contact may cause slight skin irritation with local redness.

## **Propiconazole**

Brief contact is essentially nonirritating to skin.

## Serious eye damage/eye irritation

Based on information for component(s):

May cause moderate eye irritation.

May cause corneal injury.

May cause mild eye discomfort.

## Information for components:

#### 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.

## Distillates (petroleum), hydrotreated middle

May cause slight eye irritation.

## **Titanium dioxide**

Solid or dust may cause irritation due to mechanical action.

#### Vinyltri (methylethylketoxime) silane

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

#### 3-Aminopropyltriethoxysilane

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

Vapor or mist may cause eye irritation.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

May cause slight eye irritation.

#### **Propiconazole**

May cause slight eye irritation.

May cause slight corneal injury.

## Sensitization

For skin sensitization:

A component in this mixture has been shown to be a skin sensitizer.

For respiratory sensitization:

No relevant information found.

## Information for components:

#### 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.

## 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.

#### 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.

## Vinyltri (methylethylketoxime) silane

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### 3-Aminopropyltriethoxysilane

For skin sensitization:

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.

#### **Propiconazole**

Skin contact may cause an allergic skin reaction.

For respiratory sensitization:

No relevant data found.

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

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

# Information for components:

#### 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.

## Distillates (petroleum), hydrotreated middle

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

#### Titanium dioxide

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

#### Vinyltri (methylethylketoxime) silane

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

#### 3-Aminopropyltriethoxysilane

Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

# Methyltri(ethylmethylketoxime)silane isomers and oligomers

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

#### **Propiconazole**

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

#### **Aspiration Hazard**

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

#### Information for components:

## 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.

#### Distillates (petroleum), hydrotreated middle

May be fatal if swallowed and enters airways.

#### **Titanium dioxide**

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

# Vinyltri (methylethylketoxime) silane

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

## 3-Aminopropyltriethoxysilane

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.

#### **Propiconazole**

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

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: Blood.

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:

#### 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

# Distillates (petroleum), hydrotreated middle

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

#### Titanium dioxide

Repeated excessive inhalation exposures to dusts may cause respiratory effects.

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

Lung.

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

# Vinyltri (methylethylketoxime) silane

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

Blood.

## 3-Aminopropyltriethoxysilane

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

Liver.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

For similar material(s):

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

Blood

#### **Propiconazole**

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

Liver.

## 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:

#### Silicon dioxide

No relevant data found.

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

No relevant data found.

#### Distillates (petroleum), hydrotreated middle

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

#### 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. Titaniumdioxide 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.

## Vinyltri (methylethylketoxime) silane

No relevant data found.

## 3-Aminopropyltriethoxysilane

Did not cause cancer in laboratory animals.

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

No relevant data found.

#### **Propiconazole**

Has caused cancer in some laboratory animals. However, the relevance of this to humans is unknown.

#### **Teratogenicity**

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

#### Information for components:

#### 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.

## Distillates (petroleum), hydrotreated middle

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

#### **Titanium dioxide**

No relevant data found.

## Vinyltri (methylethylketoxime) silane

No relevant data found.

## 3-Aminopropyltriethoxysilane

Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

#### 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.

## **Propiconazole**

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Has caused birth defects in laboratory animals only at doses producing severe toxicity in the mother.

## Reproductive toxicity

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

## Information for components:

#### Silicon dioxide

No relevant data found.

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

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

#### Distillates (petroleum), hydrotreated middle

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

### Titanium dioxide

No relevant data found.

#### Vinyltri (methylethylketoxime) silane

No relevant data found.

#### 3-Aminopropyltriethoxysilane

In animal studies, did not interfere with fertility.

#### 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.

# **Propiconazo**le

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

#### 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:

#### 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.

## Distillates (petroleum), hydrotreated middle

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.

#### Vinyltri (methylethylketoxime) silane

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

## 3-Aminopropyltriethoxysilane

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

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

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

#### **Propiconazole**

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

## **SECTION 12: ECOLOGICAL INFORMATION**

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

## **Ecotoxicity**

#### 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

## 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

## 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/aguatic 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

# **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

## Vinyltri (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

## 3-Aminopropyltriethoxysilane

## 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), semi-static test, 96 Hour, > 934 mg/l, OECD Test Guideline 203 or Equivalent

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), static test, 48 Hour, 331 mg/l, OECD Test Guideline 202 or Equivalent

#### Acute toxicity to algae/aquatic plants

ErC50, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, > 1,000 mg/l

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1.3 mg/l

## Toxicity to bacteria

EC50, Pseudomonas putida, 5.75 Hour, Respiration rates., 43 mg/l

#### 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

## 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

#### **Propiconazole**

#### Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Leuciscus idus (Golden orfe), 96 Hour, 5.1 mg/l

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 0.83 - 506 mg/l

LC50, Cyprinus carpio (Carp), 96 Hour, 5.7 - 46 mg/l

## Acute toxicity to aquatic invertebrates

LC50, saltwater mysid Mysidopsis bahia, 96 Hour, 0.5 mg/l, Method Not Specified.

LC50, scud Gammarus sp., flow-through test, 96 Hour, 1.3 mg/l, Method Not Specified.

EC50, Daphnia magna (Water flea), 48 Hour, 10.2 mg/l, Method Not Specified.

## Acute toxicity to algae/aquatic plants

EC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, 0.57 mg/l

EC50, diatom Navicula sp., 11 d, 0.093 mg/l

### Chronic toxicity to fish

NOEC, Cyprinodon variegatus (sheepshead minnow), 100 d, 0.068 mg/l

#### Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (Water flea), 21 d, 0.31 mg/l

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

Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm). oral LD50, Coturnix japonica (Japanese quail), 1,777 - 2,223 mg/kg dietary LC50, Anas platyrhynchos (Mallard duck), 8 d, > 5,620 ppm contact LD50, Apis mellifera (bees), > 100micrograms/bee oral LD50, Apis mellifera (bees), > 100micrograms/bee

#### Persistence and degradability

#### 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 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

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**Product name: DOWSIL™ 680 Sanitary Sealant White** 

# Distillates (petroleum), hydrotreated middle

Biodegradability: Material is expected to be readily biodegradable.

10-day Window: Not applicable **Biodegradation:** 74 % **Exposure time:** 28 d

Method: OECD Test Guideline 306

#### Titanium dioxide

Biodegradability: Biodegradation is not applicable.

## 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 % **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

## 3-Aminopropyltriethoxysilane

**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:** 67 % **Exposure time:** 28 d

Method: OECD Test Guideline 301A or Equivalent

# Stability in Water (1/2-life)

Hydrolysis, half-life, 8.5 Hour, pH 7, Half-life Temperature 24.7 °C

# Methyltri(ethylmethylketoxime)silane isomers and oligomers

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

are either readily or ultimately biodegradable.

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

Method: OECD Test Guideline 301A

## **Propiconazole**

**Biodegradability:** No relevant information found.

Theoretical Oxygen Demand: 2.01 mg/mg

Photodegradation

**Test Type:** Half-life (indirect photolysis)

Sensitization: OH radicals

Atmospheric half-life: 5.533 Hour

Method: Estimated.

## Bioaccumulative potential

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## 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

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Relationship (SAR).

## Distillates (petroleum), hydrotreated middle

Bioaccumulation: No relevant data found.

#### Vinyltri (methylethylketoxime) silane

Bioaccumulation: No relevant data found.

#### 3-Aminopropyltriethoxysilane

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

Partition coefficient: n-octanol/water(log Pow): 1.7 at 20 °C Calculated.

Bioconcentration factor (BCF): 3.4 Cyprinus carpio (Carp) 56 d

## 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).

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

## **Propiconazole**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Partition coefficient: n-octanol/water(log Pow): 3.72 Measured

Bioconcentration factor (BCF): 116 Lepomis macrochirus (Bluegill sunfish) 14 d

## **Mobility in Soil**

#### Silicon dioxide

Partition coefficient (Koc): 21.73

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

No relevant data found.

#### Distillates (petroleum), hydrotreated middle

No relevant data found.

#### Vinyltri (methylethylketoxime) silane

No relevant data found.

#### 3-Aminopropyltriethoxysilane

No relevant data found.

# Methyltri(ethylmethylketoxime)silane isomers and oligomers

No relevant data found.

# **Propiconazole**

Partition coefficient (Koc): 382 - 1789 Measured

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#### Results of PBT and vPvB assessment

## 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).

## 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).

## Distillates (petroleum), hydrotreated middle

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

#### **Titanium dioxide**

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

## Vinyltri (methylethylketoxime) silane

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

#### 3-Aminopropyltriethoxysilane

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).

## Methyltri(ethylmethylketoxime)silane isomers and oligomers

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

#### **Propiconazole**

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

#### Other adverse effects

#### 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.

## <u>Distillates (petroleum), hydrotreated middle</u>

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

## <u>Titanium dioxide</u>

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.

#### 3-Aminopropyltriethoxysilane

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.

## **Propiconazole**

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: Recycler. Reclaimer. 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

Classification for SEA transport (IMO-IMDG):

Not regulated for transport Consult IMO regulations before transporting ocean bulk

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.

# **SECTION 15: REGULATORY INFORMATION**

#### **Poison Schedule**

S<sub>5</sub>

Product repackaged for public consumer use should be labelled in accordance with the current Standard for the Uniform Scheduling of Medicines and Poisons.

## 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

There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

## Revision

Identification Number: 4018316 / A142 / Issue Date: 22.04.2021 / Version: 4.0 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)
AU OEL	Australia. Workplace Exposure Standards for Airborne Contaminants.
Dow IHG	Dow Industrial Hygiene Guideline
TWA	Time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

## Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG -

Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer: IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent. Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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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