

## GoBoard® Pro Sealant

Version 2.1

Revision Date 04/23/2021

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : GoBoard® Pro Sealant

**Manufacturer or supplier's details**

 Company : Johns Manville  
 Address : P.O. Box 5108  
           Denver, CO USA 80127  
 Telephone : +1-303-978-2000  
 Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)  
 number

 Company : Johns Manville Canada Inc.  
 Address : 5301 42 Avenue  
           Innisfail, AB Canada T4G 1A2  
 Telephone : +1-303-978-2000  
 Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)  
 number

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

 Recommended use : Adhesives and/or sealants  
 Prepared by : productsafety@jm.com

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)**

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

**GHS label elements**

Hazard pictograms :



Signal word : Danger

 Hazard statements : H315 Causes skin irritation.  
                           H317 May cause an allergic skin reaction.  
                           H319 Causes serious eye irritation.  
                           H360 May damage fertility or the unborn child.

 Precautionary statements : **Prevention:**  
                                   P201 Obtain special instructions before use.  
                                   P202 Do not handle until all safety precautions have been read

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and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

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

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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

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

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards**

None known.

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

Adhesives and/or sealants

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
calcium carbonate	471-34-1	>= 30 - < 60
trimethoxyvinylsilane	2768-02-7	>= 1 - < 5
titanium dioxide	13463-67-7	>= 1 - < 5
3-aminopropyltriethoxysilane	919-30-2	>= 1 - < 5
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

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In case of eye contact	:	Call a physician if irritation develops or persists. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	DO NOT induce vomiting unless directed to do so by a physician or poison control center. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately. If breathing is irregular or stopped, administer artificial respiration.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO <sub>2</sub> ) Dry powder Water spray Alcohol-resistant foam
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	carbon oxides Silicon oxides titanium/titanium oxides nitrogen oxides
Specific extinguishing methods	:	Use water spray to cool unopened containers.
Further information	:	Standard procedure for chemical fires. 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.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.
- Storage period : 18 Months
- Further information on storage stability : Keep in a dry, cool place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m <sup>3</sup>	OSHA
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	TWA	0.1 mg/m <sup>3</sup> (Tin)	OSHA
		TWA	0.1 mg/m <sup>3</sup> (Tin)	ACGIH
		STEL	0.2 mg/m <sup>3</sup> (Tin)	ACGIH
		TWA	0.1 mg/m <sup>3</sup> (Tin)	OSHA
methanol	67-56-1	TWA	0.1 mg/m <sup>3</sup> (Tin)	NIOSH REL
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA

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### Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection  
Material : Rubber gloves
- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : Wear safety glasses with side shields or goggles.  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Wear protective clothing, such as long-sleeved shirts and pants.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.  
Written instructions for handling must be available at the work place.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste  
 Colour : white  
 Odour : slight  
 Odour Threshold : No data available  
 pH : Not applicable
- Melting point/freezing point : not determined  
 Initial boiling point and boiling range :  $\geq 288$  °C  
 Flash point :  $> 200$  °C  
 Method: Cleveland open cup
- Evaporation rate : No data available  
 Flammability (solid, gas) : No data available  
 Upper explosion limit : No data available  
 Lower explosion limit : No data available  
 Vapour pressure :  $> 0.0000000$  hPa (20 °C)

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Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.5 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: immiscible
Solubility in other solvents	
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: >= 305 °C
Thermal decomposition	
Viscosity	: No data available
Viscosity, dynamic	: 600,000 mPa.s (23 °C)
Viscosity, kinematic	
	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Methanol is given off during processing and by reaction with water. No decomposition if stored and applied as directed.
Conditions to avoid	: Exposure to moisture
Incompatible materials	: Water

#### Hazardous decomposition products

Contact with water or humid air : Methanol

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : > 200 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

#### Acute toxicity

##### Components:

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**calcium carbonate:**

- Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
 Method: OECD Test Guideline 420  
 GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male and female): > 3 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 GLP: yes  
 Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 GLP: yes

**Acute toxicity**
**trimethoxyvinylsilane:**

- Acute oral toxicity : LD50 Oral (Rat, male): 7,120 mg/kg  
 Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): 16.8 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 3,600 - 4,000 mg/kg  
 Method: OECD Test Guideline 402

**Acute toxicity**
**titanium dioxide:**

- Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403
- Acute dermal toxicity : Method: Expert judgement  
 Assessment: The substance or mixture has no acute dermal toxicity

**Acute toxicity**
**3-aminopropyltriethoxysilane:**

- Acute oral toxicity : LD50 (Rat, female): 1,490 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male): > 5 ppm  
 Exposure time: 6 h  
 Test atmosphere: vapour  
 Method: OECD Test Guideline 403  
 Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): 4,080 mg/kg

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**Acute toxicity****dibutylbis(pentane-2,4-dionato-O,O')tin:**

Acute oral toxicity : LD50 (Rat, female): 1,864 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation****Components:****3-aminopropyltriethoxysilane:**

Species: Rabbit  
Exposure time: 1 h  
Method: OECD Test Guideline 404  
Result: Corrosive after 3 minutes to 1 hour of exposure

**Skin corrosion/irritation****dibutylbis(pentane-2,4-dionato-O,O')tin:**

Species: Rat  
Exposure time: 24 h  
Method: OECD Test Guideline 402  
Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

**Serious eye damage/eye irritation****Components:****3-aminopropyltriethoxysilane:**

Species: Rabbit  
Result: Irreversible effects on the eye  
Method: OECD Test Guideline 405

**Serious eye damage/eye irritation****dibutylbis(pentane-2,4-dionato-O,O')tin:**

Species: Rabbit  
Result: Irreversible effects on the eye  
Method: in vitro eye irritation test  
Remarks: rabbit eye

**Respiratory or skin sensitisation****Components:****3-aminopropyltriethoxysilane:**

Test Type: Buehler Test  
Exposure routes: Dermal  
Species: Guinea pig  
Method: OECD Test Guideline 406



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Result: May cause sensitisation by skin contact.

**Respiratory or skin sensitisation**
**dibutylbis(pentane-2,4-dionato-O,O')tin:**

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

**Germ cell mutagenicity**
Components:
**dibutylbis(pentane-2,4-dionato-O,O')tin:**

Germ cell mutagenicity-  
 Assessment : Positive result(s) from in vivo somatic cell mutagenicity tests supported by positive results from in vitro mutagenicity assays or chemical structure activity relationship to known germ cell mutagens

**IARC**

Group 1: Carcinogenic to humans

 quartz (SiO<sub>2</sub>) 14808-60-7

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA (29 CFR 1910 Subpart Z, Toxic and Hazardous Substances).

**NTP**

Known to be human carcinogen

 quartz (SiO<sub>2</sub>) 14808-60-7

**Reproductive toxicity**
Components:
**dibutylbis(pentane-2,4-dionato-O,O')tin:**

Reproductive toxicity -  
 Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

**STOT - single exposure**
Components:
**dibutylbis(pentane-2,4-dionato-O,O')tin:**

Target Organs: thymus gland

Assessment: Causes damage to organs.

**STOT - repeated exposure**
Components:
**dibutylbis(pentane-2,4-dionato-O,O')tin:**

Exposure routes: Ingestion

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Target Organs: thymus gland

Assessment: Causes damage to organs through prolonged or repeated exposure.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****dibutylbis(pentane-2,4-dionato-O,O')tin:**

- Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): > 2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.0036 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (*Desmodesmus subspicatus* (green algae)): 2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to microorganisms : EC50 (activated sludge): 190 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****trimethoxyvinylsilane:**

- Partition coefficient: n-octanol/water : log Pow: -2 - -0.82 (20 °C)  
pH: 7

**3-aminopropyltriethoxysilane:**

- Partition coefficient: n-octanol/water : log Pow: 1.7 (20 °C)  
pH: 7

**Mobility in soil**

No data available

**Other adverse effects****Product:**

- Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

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Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Contaminated packaging : Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

**SECTION 15. REGULATORY INFORMATION****TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals : No substances are subject to a Significant New Use Rule.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Skin corrosion or irritation

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Respiratory or skin sensitisation  
Reproductive toxicity  
Serious eye damage or eye irritation

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.


**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**California Prop. 65**

 **WARNING:** This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

TSCA : All substances listed as active on the TSCA inventory

DSL : All components of this product are on the Canadian DSL

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

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.