

**BLUESTONE PRODUCTS**  
**A TCC Materials Company**  
2025 Centre Pointe Boulevard  
Mendota Heights, MN 55120-1221

**Emergency Telephone Number:**  
651-688-9116  
**Information Telephone Number**  
651-688-9116

**Revision Date**  
June 2021

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**Section 1: Product Identification**

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Product Type: Concrete Sealer

**Product Name:**

Tenon™ Paver Guardian WB

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**Section 2: Hazard Identification**

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**Hazard Risk Classification**

**This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A, and classified as:**

Skin irritant, hazard category 2

The most immediate and likely hazard is skin irritation.

**Label Elements:**

**Hazard Pictogram:**



**Signal Word:** Warning.

**Hazard Statements:**

Causes skin irritation.

**Applicable Precautionary Statements:**

**Precautionary Statements:**

**General**

Read label before use. Keep out of reach of children. If medical advice is needed, have product container at hand.

**Prevention**

Wash skin thoroughly after handling.  
Wear protective gloves.

**Response**

IF ON SKIN: Wash with plenty of water/ soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs; Get medical advice / attention.

**Other hazards**

None known. No hazards other than skin irritation are likely from normal use of this product.

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**Section 3: Hazardous Ingredients/Composition**

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**Chemical nature**

Aqueous preparation

<u>Ingredient</u>	<u>Typical Percentage*</u>	<u>CAS #</u>
Trialkoxysilane .....	5-50%	Proprietary

\*Specific chemical identities and concentrations withheld as trade secret. They are available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

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**Section 4: First Aid Measures**

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**General advice:**

Remove contaminated or saturated clothing immediately and dispose of safely.

**Eye contact:**

Hold eyelids apart and flush with plenty of water. At least 15 minutes of flushing is recommended for any chemical contact. Check for and remove any contact lenses. If an irritation persists, get medical attention.

**Skin Contact:**

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Wash clothing and clean contaminated shoes before reuse.

**Inhalation:**

If aerosol or mists are inhaled, take affected persons out into the fresh air. May cause irritation of mucus lining (nose, throat, eyes), cough, sneezing and flow of tears. In case of persistent discomfort, obtain medical attention.

**Ingestion:**

Get medical attention (check with the Poison Control Center or a doctor. If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

Never administer anything by mouth to an individual who is rapidly losing consciousness, unconscious or convulsing.

**Most important symptoms and effects, both acute and delayed****Symptoms**

Moderately irritating to the skin. Can be slightly irritating to eyes.

Hydrolysed to ethanol – if a quantity is swallowed, toxic effects of ethanol ingestion are possible.

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

If required, therapy for irritative effect.

If substance has been swallowed: early endoscopy is recommended to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, aspirate leftover substance.

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**Section 5: Fire Fighting Measures**

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**Fire extinguishing media:**

Suitable extinguishing media: Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder

Unsuitable extinguishing media: High volume water jet.

**Special hazards arising from the substance or mixture:** none

**Hazardous combustion products:** carbon monoxide, carbon dioxide, silicon oxides.

**Special protective actions for fire-fighters:** Prevent runoff from entering sewers, streams, water sources.

**Special protective equipment for fire-fighters:** Firefighters should wear personal protective equipment, including self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

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**Section 6: Accidental Release Measures**

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

Use personal protective equipment suitable for routine use (see section 8).

**Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**Methods and material for containment and cleaning up**

Stop leak if you can do so safely. Contain spill. Dike drains to prevent entry into sewers, waterways. Soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Promptly clean surface with aqueous soap solution.

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**Section 7: Handling and Storage**

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**Precautions for safe handling**

Provide good ventilation.

**Conditions for safe storage, including any incompatibilities**

Keep container closed. Keep from freezing and from exposure to temperatures above 35°C (95°F).

May generate ethanol on contact with water or moisture.

**Advice on protection against fire and explosion**

Normal measures for preventive fire protection.

Keep away from sources of ignition - No smoking.

Vapors may form explosive mixtures with air.

Wash hands after use.

Do not eat, drink, or use tobacco products when handling any chemical products.

**Storage stability**

12 months

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**Section 8: Exposure Controls/Personal Protection**

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**Occupational Exposure Limits:**

	OSHA PEL	OSHA 1989 PEL <sup>1</sup>	ACGIH TLV	NIOSH REL
Trialkoxysilane	None established			
Ethanol <sup>2</sup>	1000 ppm	1000 ppm	1000 ppm	1000 ppm

<sup>1</sup>For states that adopted the 1989 PEL revisions (Minnesota, Oregon, Washington, California)

<sup>2</sup>Ethanol is not an ingredient but may be produced from hydrolysis with water or moisture, particularly after long term storage.

**Engineering Controls:**

Sufficient to maintain vapors below recommended limits. General ventilation is usually adequate for typical product use.

**Personal protective measures and equipment**

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Remove potentially contaminated clothing and wash before reusing.

**Eye/face protection:** Safety glasses with side shields are recommended to ensure against any eye contact.

**Hand protection:** Chemical-resistant, impervious gloves should be worn when handling chemical products, particularly for prolonged contact. Check gloves during use to ensure that the gloves are still retaining their protective properties.

**Glove selection guidelines:**

Glove material	Material thickness	Break through time
Butyl-rubber	0.5 mm	≥ 480 min
Fluorinated rubber (Viton)	0.4 mm	≥ 480 min
Nitrile rubber/Nitrile latex (NBR)	0.11 mm	≥ 480 min
Polychloroprene (PCP), neoprene	0.65 mm	≥ 480 min

This information is based on tests done by the manufacturer of the main ingredient, references from the literature and information from glove manufacturers, or derived by analogy with similar materials. Suitability for specific workplaces should be clarified with protective glove manufacturers. Actual effective use time of a chemical protective glove is likely to be shorter than the break through time due to the many influencing factors (e.g. temperature, mechanical strain on the glove material). The above mentioned hand protection recommendations are based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

**Skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the tasks performed and risks involved.

**Respiratory protection:** None usually required. If concentrations cannot be maintained below exposure limits with ventilation alone, use cartridge respirator with organic vapor cartridges. Choose a respirator with an appropriate assigned protection factor for the expected concentrations.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

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**Section 9: Physical and Chemical Properties**

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**Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Color</b>	white (dries to clear)
<b>Form</b>	liquid
<b>Odor</b>	faint inherent odor
<b>Odor Threshold</b>	not determined
<b>pH</b>	6 - 9 (25 °C)
<b>Melting point/range</b>	not determined
<b>Boiling point/range</b>	ca. 212°F (100 °C)
<b>Flash point</b>	>100 °C (212°F)

	Method: DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
<b>Evaporation rate</b>	not determined
<b>Flammability (solid, gas)</b>	not determined
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Vapor pressure</b>	not determined
<b>Relative density</b>	not determined
<b>Density</b>	ca. 0.96 g/cm <sup>3</sup> (24°F)
<b>Water solubility</b>	miscible
<b>Partition coefficient:</b>	
<b>n-octanol/water</b>	not determined
<b>Autoignition temperature</b>	not determined
<b>Thermal decomposition</b>	not determined
<b>Viscosity, dynamic</b>	not determined
<b>Viscosity, kinematic</b>	no data available
<b>Other information</b>	no data available

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### Section 10: Stability and Reactivity

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**Reactivity:** No dangerous reaction known under conditions of normal use.

**Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** None known.

**Incompatible materials:** None known.

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition products:** Ethanol in case of hydrolysis

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### Section 11: Toxicological Information

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Toxicity testing has not been done on product as a whole.

No ingredient is considered respiratory or skin sensitizers.

No ingredient is listed as a carcinogen by OSHA, National Toxicology Report on Carcinogens, or the International Agency for Research on Cancer (IARC).

**Toxicological information on components****Trialkoxysilane**

Acute oral toxicity:

LD<sub>50</sub> Rat: > 5110 mg/kg

(Method: OECD Test Guideline 401)

Acute inhalation toxicity:

LC<sub>10</sub> Rat: 22 ppm / 4 h (saturated vapor concentration)

(Method: OECD Test Guideline 403)

Assessment: The substance or mixture has no acute inhalation toxicity maximum concentration in the test: no animals died.

Acute dermal toxicity:

LD<sub>50</sub> Rabbit: 67.30 mg/kg

(Method: OECD Test Guideline 402)

Skin irritation:

Rabbit: Skin irritation

(Method: OECD Test Guideline 404)

Eye irritation

Rabbit: No eye irritation developed

(Method: OECD Test Guideline 405)

Sensitization

Maximization test: Guinea pig: Does not cause skin sensitization. Test substance: Structurally similar substance

(Method: OECD Test Guideline 406)

Repeated dose toxicity,

Oral Rat / 28-day,

NOAEL: 300 mg/kg

(Method: OECD Test Guideline 422)

Assessment of STOT Single exposure:

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Assessment of STOT Repeat Exposure:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Risk of aspiration toxicity:

no evidence of aspiration toxicity

Genotoxicity in vitro:

Ames test Salmonella typhimurium: Negative

(Method: OECD Test Guideline 471)

Chromosomal aberration: Chinese hamster (CHO K1-cells): Negative

(Method: OECD Test Guideline 473)

Genetic mutation in mammal cells TK +/- mouse lymphoma cell (L5178Y):

Negative

(Method: OECD Test Guideline 476)

Carcinogenicity:

No data available.

Toxicity to reproduction:

Screening for reproductive/developmental toxicity: Oral Rat

Number of exposures: Daily

NOAEL (No Observed Adverse Effect Level) of parents:

300 mg/kg

NOAEL F1: 300 mg/kg (Method: OECD Test Guideline 422)

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## Section 12: Ecological Information

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### Toxicity

No ecotoxicological studies are available for the product as a whole.

#### **Trialkoxysilane**

Fish [*Oncorhynchus mykiss*]: 96 h LC<sub>50</sub> > 0.055 mg/L (OECD TG 203; flow-through; measured; tested at the water solubility limit)

Invertebrate [*Daphnia magna*]: 48 h EC<sub>50</sub> > 0.049 mg/L (OECD TG 202; flow-through; measured; tested at the water solubility limit)

Algae [*Pseudokirchneriella subcapitata*]: 72-hour E<sub>v</sub>C<sub>50</sub>, E<sub>r</sub>C<sub>50</sub>, E<sub>b</sub>C<sub>50</sub>, > 0.13 mg/L (OECD TG 201; nominal; tested at the water solubility limit)

Algae [*Pseudokirchneriella subcapitata*]: NOEC = 0.13 mg/L (nominal; tested at the water solubility limit)

### Persistence and degradability

Likely not readily biodegradable.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

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## Section 13: Disposal Considerations

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### As provided, not a RCRA-regulated waste

Do not sewer or dump on the ground.

Dispose of in accordance with federal, state, and local regulations.

Dried material may usually be disposed of as industrial solid waste.



Since empty containers retain product residue, follow SDS and label warnings even after container is emptied. Do not reuse empty containers; dispose of in accordance with local regulations.

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**Section 14: Transportation**

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**Not dangerous according to transport regulations.**

UN number:	Not applicable.
UN proper shipping name:	Not applicable.
Transport hazard class:	Not applicable.
Environmental hazards (Marine pollutant):	Not applicable.

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**Section 15: Regulatory Information**

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**US Toxic Substance Control ACT (TSCA):**

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

This product does not contain any extremely hazardous substances regulated under SARA 302, 303 or CERCLA

Chemicals on California's List of Chemicals known to the state of California to cause cancer or reproductive effects (Proposition 65): none

Chemicals on the New Jersey Right to Know Hazardous Substance List: trialkoxysilane

Hazardous air pollutants: none

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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**Section 16: Other Information**

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HMIS® Rating: Health: 1 Fire: 1 Reactivity: 0  
*HMIS® is a registered trademark of the National Paint and Coatings Association*  
NFPA 704 Rating: Health: 1 Fire: 1 Instability: 0

Additional information on the product is available at. [www.tccmaterials.com](http://www.tccmaterials.com)

**Date and Revision: 15 June 2021, Revision 1.1**

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