

BLUESTONE PRODUCTS
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Section 1: Product Identification

Product Type: Concrete Sealer

Product Name:

Tenon® Paver Seal & Shine

Section 2: Hazard Identification

Hazard Risk Classification

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

- Aspiration hazard, hazard category 1
- Eye irritant, hazard category 2
- Skin irritant, hazard category 2
- Flammable liquid, hazard category 3
- Specific target organ toxicity – single exposure, hazard category 3
Irritation, narcotic effects

Label Elements:

Hazard Pictograms:



Signal Word: Danger.

Hazard Statements:

- May be fatal if swallowed and enters airways.
- Flammable liquid and vapor.
- Causes eye irritation.
- Causes skin irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

Precautionary Statements:

General

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

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/eye protection/face protection.
Wear protective clothing.
Keep away from heat, hot surfaces, sparks, and open flames. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment where flammable vapors can be generated.
Avoid breathing vapors.
Use only outdoors or in a well-ventilated area.
Wash hands and other exposed skin thoroughly after handling.

Response

If exposed or concerned, if you feel unwell, or if eye irritation or skin irritation occurs: Get medical attention.

If in eyes: Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

If on skin (or hair): Wash with plenty of water. Take off contaminated clothing and wash before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

In case of fire: Use a Class B fire extinguisher (such as carbon dioxide, dry chemical) to extinguish.

Storage

Store locked up, in a well-ventilated place. Keep cool.
Keep container tightly closed. Do not transfer to other containers.

Disposal

Dispose of contents/container in accordance with all local, state, national, and international regulations.

Supplemental Label Elements:**Delayed Effects from Long Term Exposure:**

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Hazards not otherwise classified:

None known.

Section 3: Hazardous Ingredients/Composition

<u>Ingredient</u>	<u>Typical Percentage*</u>	<u>CAS #</u>
Acrylic resin	20-30%	nonhazardous
Solvent Naphtha, Light Aromatic 100	60-75%	6472-95-6

*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).

Section 4: First Aid Measures

Eye contact:

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

Skin Contact:

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

Inhalation:

Move to fresh air. If breathing difficulty develops, provide oxygen or give artificial respiration and seek medical attention. Never give anything by mouth to an unconscious person.

Ingestion:

Get medical attention (check with the Poison Control Center or a doctor). Do **not** induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tightly clothing such as collar, tie, belt, or waistband.

Symptoms of overexposure:

Eye:

Eye irritation or pain, watering, redness could develop from direct contact or from vapors.

Skin:

Can dry skin and cause skin cracking. May cause irritation and/or redness.

Inhaled:

High vapor concentrations will be irritating to the nose and throat. Breathing large amounts can cause headaches, dizziness, weakness, irritability, coughing, nausea (narcotic effects), and/or unconsciousness. May cause central nervous system depression.

Ingestion:

If swallowed/vomited, liquid can enter the lungs (be aspirated) and cause chemical pneumonia, which can be fatal.

Note to physician: Treat according to symptoms. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No known specific antidote.

Section 5: Fire Fighting Measures

Suitable fire extinguishing media: Use Class B extinguisher (dry chemical, CO₂), water spray, water fog, or foam.

Unsuitable fire extinguishing media: Do not use a direct stream of water.

Unsuitable fire extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel across ground in a considerable distance to ignition sources and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products: carbon monoxide, carbon dioxide, acrylic monomers.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Cool fire-exposed containers with water spray to prevent container weakening and rupture. Prevent runoff from entering sewers, streams, water sources.

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

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

General precautions: Control sources of ignition. Stop leak if you can do so safely. Contain spill. Dike drains to prevent entry into sewers, waterways. Soak up with absorbent material. Use nonsparking tools to clean up spilled material.

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and

unprotected personnel from entering. Do not touch or walk through spilled area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, refer to information in Section 8 on suitable and non-suitable materials.

Environmental precautions: Avoid dispersal of spilled material and runoff contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if you can do so safely. Move containers from spill area. Use non-sparking tools and explosion-proof equipment. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of container via a licensed waste disposal contractor.

Large spill: Stop leak if you can do so safely. Move containers from spill area. Use non-sparking tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of container via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7: Handling and Storage

Precautions for Safe Handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Use in well-ventilated area. Do not breathe vapor or mist. Do not swallow. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or a properly labeled approved alternative made from a compatible material. Keep container tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Ground and bond containers when transferring materials, to control static electricity. Do not cut or weld on empty containers. Empty containers can contain explosive vapors. Do not reuse container.

General hygiene advice: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Wash hands and face after use, especially before eating, drinking, and smoking. Remove contaminated clothing and

protective equipment before entering eating areas. Refer to Section 8 for additional information on hygiene measures.

Conditions for safe storage including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container away from heat, fire, sources of ignition, direct sunlight, and away from incompatible materials and oxidizing materials (refer to Section 10). Store away from food and drink. Store locked up. Keep container closed when not in use. Containers that have been opened must be tightly closed and resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA PEL	OSHA 1989 PEL ¹	ACGIH TLV	NIOSH REL
Acrylic resin	Not established	Not established	Not established	Not established
Solvent naphtha, light aromatic	Not established	Not established	100 mg/m ³	Not established

¹For states that adopted the 1989 PEL revisions “(Minnesota, Oregon, Washington, California)”.

²ACGIH TLV: Group Guidance Value recommended for certain refined hydrocarbon solvent vapor mixtures, based on C9-C15 aromatics, Appendix H.

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.

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

Body protection: Personal protective equipment for the body should be selected based on the task being performed and risks involved.

Respiratory protection: 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.

Section 9: Physical and Chemical Properties

Appearance:	Clear liquid
Odor:	Hydrocarbon odor
Flash point:	>100°F.
Flammable limits:	Not determined for product.
Boiling Point:	Not determined for product
Melting point:	Not determined
Autoignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Specific Gravity:	0.92
Density:	7.68 pounds per gallon
Solubility in water:	Not miscible.
Partition coefficient (Kow):	Not determined.
Vapor pressure:	Not determined for product.
Vapor density:	Not determined for product.
Evaporation rate (butyl acetate = 1):	>1
VOC%:	>60%

Section 10: Stability and Reactivity

Reactivity: No specific test data related to reactivity is available for this product or its ingredients.

Stability: stable

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid all possible sources of ignition, including heat, sparks, or flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatibility: strong oxidizing agents, strong acids or alkalis

Hazardous polymerization: will not occur

Hazardous decomposition products: none expected in normal use.

Section 11: Toxicological Information

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).

Acrylic resin:

No GHS classification.

Supplier reports that it may cause an allergic skin reaction when dissolved into organic solvent.

Solvent naphtha (light aromatic) is classified as:

GHS classification

Aspiration hazard 1

Flammable liquid 2

STOT-SE hazard category 3 (central nervous system toxicity by inhalation) – respiratory irritant

Eye irritant 2B

Skin irritant 2

Primary routes of entry: inhalation, skin contact, skin absorption, eye contact, ingestion.

Specific target organ toxicity, repeated exposure – hazard category 2 (nervous system effects)

Hazard to the aquatic environment (acute) – hazard category 2

Rat LD50, oral: 8400 mg/kg (causing tremor, somnolence, respiratory changes)

Considered mildly to moderately irritating to skin, minimally irritating to eye

Potential to irritate respiratory tract

Repeated dose toxicity:

NOEL, rat, 3 month inhalation study: 6500 mg/m³

NOAEL, rat, 12 month inhalation study: 373 ppm (1830 mg/m³) for commercial blend

Reproductive toxicity:

Rats, LOAEC, F3 generational study: 495 ppm (2430 mg/m³)

Information on the likely routes of exposure: Skin contact, eye contact, ingestion.

Potential acute health effects:

Eye contact: Causes eye irritation.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact: Causes skin irritation.

Ingestion: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye Contact: Adverse symptoms may include pain or irritation, watering, and/or redness.

Inhalation: Adverse symptoms may include respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness, and/or unconsciousness.

Skin Contact: Adverse symptoms may include irritation and/or redness.

Ingestion: Adverse symptoms may include nausea or vomiting.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects: Not available.

General: May cause damage to organs through prolonged or repeated exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Section 12: Ecological Information

Product as a whole has not been tested.

Ecotoxicity: Solvent naphtha is considered toxic to aquatic organisms (GHS acute aquatic hazard category 2).

Persistence and degradability

Acrylic resin is nonbiodegradable. Solvent naphtha is considered readily biodegradable.

Mobility in soil:

Acrylic resin has low mobility in soil.

Bioaccumulation: Based on ingredients, not likely to bioaccumulate.

Solvent naphtha, reported range for fish (LL50, LC50) and invertebrates (EL50, EC50): 3.5-9.2 mg/L.

Section 13: Disposal Considerations

Disposal methods:

As provided, RCRA-regulated as D001 (ignitable), F003

Do not dump in sewer or on the ground.

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

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

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a flammable or explosive atmosphere inside the container. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally. This material and its container must be disposed of in a safe way.

Section 14: Transportation

Proper shipping name: Not regulated in containers 119 gallons (450 L) or less.
Combustible Liquid in containers greater than 119 gallons for ground travel.

For containers greater than 119 gallons, vessel, international shipments, or air:

Proper shipping name: Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum, or barrel lining).

UN Number: UN1139

Hazard class: 3

Packing group: III

Section 15: Regulatory Information

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 the New Jersey Right to Know Hazardous Substance List: none

Hazardous air pollutants: none

SARA 311/312 Hazard Categories

Acute health hazard Yes

Chronic Health Hazard Yes

Fire hazard Yes

Sudden release of pressure hazard No

Reactive Hazard No

Section 16: Other Information

Hazardous Material Information System (USA)

HMIS® Rating: Health: 2 Fire: 2 Reactivity: 0

HMIS® is a registered trademark of the National Paint and Coatings Association

NFPA 704 Rating: Health: 2 Fire: 2 Instability: 0

Additional information on the product is available at: www.tccmaterials.com

Date and Revision: 14 June, 2021, Revision 1

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