

BLUESTONE PRODUCTS™
A TCC Materials Company
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Revision Date
December 2020

Section 1: Product Identification

Product Type: Concrete Additive

Product Name:

ProSpec[®] Fast-Set Liquid Activator

Section 2: Hazard Identification



Warning.

Applicable hazard statements:

Causes serious eye irritation.

Causes skin irritation

Harmful if swallowed.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as an Eye Irritant, Hazard Category 2; Skin Irritant, and Acutely Toxic Hazard Category 4.

Applicable Precautionary Statements:

Prevention

Wear eye protection/face protection (chemical safety goggles) and protective gloves.

Wash exposed skin, particularly hands, thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If on skin: wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical attention.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.

Disposal:

Dispose of contents/container in accordance with local and state regulations.

This product is designed to be mixed with concrete. See the safety data sheet and follow recommended precautions for the concrete.

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

NFPA 704 Rating: Health: 1 Fire: 0 Reactivity: 0
NFPA 704 is the National Fire Protection Association's Standard System for the Identification of the Hazards of Materials for Emergency Response

Section 3: Hazardous Ingredients/Composition

Ingredient	Typical Percentage	CAS #
inorganic nitrate	up to 17%	10124-37-5
Sodium salt	up to 4%	540-72-7

Other ingredients withheld as trade secret, but do not contribute to hazard. Specific percentages and identities are available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

Section 4: First Aid Measures

Inhalation:

Unlikely to be an inhalation hazard. If it is aerosolized, it can cause respiratory irritation. Move to fresh air.

Eye contact:

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

Skin Contact:

Rinse with plenty of water. Remove any contaminated clothing and continue rinsing.

Ingestion:

Rinse mouth. If patient can drink, give plenty of water. Check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.

Symptoms of overexposure: Irritating to eyes and skin. If sprayed, can irritate the respiratory tract, causing coughing, scratchy throat. Prolonged or repeated skin contact can cause a skin rash, drying, itching, and redness. Ingestion can cause headache, dizziness, weakness, breathing difficulties, blood pressure loss.

Note to physician: Treat as nitrite poisoning. Can result in methemoglobinemia, with symptoms of headaches, heart beat irregularities, blood pressure loss, cyanosis.

Section 5: Fire Fighting Measures

Fire extinguishing media: Appropriate for surrounding materials (carbon dioxide, water spray, dry chemical, foam).

Special fire fighting procedures: none

Unusual fire and explosion hazards: None expected

Hazardous combustion products: carbon monoxide, carbon dioxide, oxides of nitrogen

Section 6: Accidental Release Measures

Contain and soak up with absorbent material. Clean area with water.

Section 7: Handling and Storage

No special precautions are required. Material is stable and noncombustible.

Keep container closed.

Do not allow product to freeze.

Wash hands after all chemical use.

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

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

	OSHA PEL	OSHA 1989 PEL*	ACGIH TLV	NIOSH REL
No occupational exposure limits have been established for any of the ingredients				

*For states that adopted the 1989 PEL revisions (Minnesota, Oregon, Washington, California)

Engineering Controls:

No special measures are needed.

Local exhaust ventilation is not required

Personal protective equipment

Respiratory protection: Not required under conditions of normal use.

Skin protection: Wear water-impermeable gloves such as nitrile, PVC, or natural rubber gloves for prolonged contact.

Eye protection: Wear eye protection (chemical safety goggles are recommended to protect against splashes).

Section 9: Physical and Chemical Properties

Appearance and odor: liquid with slight brown color, faint odor

Flash point: noncombustible.

Flammable limits: N/A

Boiling Point: ~212°F (approximate)

Freezing point: ~ 32°F (approximate)

Specific Gravity: 1 (estimated)

Solubility in water: miscible

pH: 6.9-7

Evaporation rate (butyl acetate = 1): <1 (equivalent to water)

Vapor pressure: negligible

Section 10: Stability and Reactivity

Stability: stable

Conditions to avoid: none known.

Incompatibility: strong acids, strong bases, strong oxidizers

Hazardous polymerization: will not occur

Hazardous decomposition products: none likely.

Section 11: Toxicological Information

Not considered acutely toxic.

No ingredients are reported as aspiration hazards, reproductive toxicants or germ cell mutagens. No ingredients are listed as carcinogenic according to IARC, ACGIH, NTP, or OSHA.

Reported LD50 (rat, oral) for the nitrate is 302 mg/kg. This chemical has an irritating action on skin and mucus membranes. Not absorbed through the skin. Oral toxicity is likely due to nitrate reduction to nitrite in the mouth and stomach, causing methemoglobinemia.

Section 12: Ecological Information

Ecotoxicity Product as a whole has not been tested. Ingredients are not considered toxic to fish, crustaceans, or algae

Persistence and degradability: Generally biodegrades. A portion may be insoluble, and is readily removed in wastewater treatment plants.

Mobility in soil: Based on ingredients, mobile. Unlikely to adsorb onto soil or sediment.

Bioaccumulation: based on ingredients, not likely to bioaccumulate.

Section 13: Disposal Considerations

Do not dump on the ground
As provided, not a RCRA-regulated waste.
Dispose of in accordance with federal, state, and local regulations.

Section 14: Transportation

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

Section 15: Regulatory Information

This product does not contain 0.1% or more of any

- chemicals regulated under:
CERCLA
SARA 302 EHS
- Hazardous Air Pollutants.
- chemicals known to the state of California to cause cancer or reproductive effects.

The anhydrous form of the nitrate is listed on the New Jersey Right to Know Hazardous Substance List.

Water dissociable nitrate compounds are reportable under SARA Section 313. SARA 311/312 classified as immediate hazard, fire.

Section 16: Other Information

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

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Safety Data Sheet
ProSpec® Fast-Set Liquid Activator
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