SAFETY DATA SHEET

Limelight™ — High-Performance Liquid Admixture for Cementitious Mixtures

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Prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200, HazCom 2012, aligned with the GHS) and the Canadian Hazardous Products Regulations.

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name: Limelight™

Product type: High-performance liquid chemical admixture for concrete and cementitious mixtures

1.2 Other means of identification

Synonyms: Limelight Admixture; Limelight Liquid Admixture

Product code: Not applicable

1.3 Recommended use and restrictions on use

Recommended use: Liquid admixture added to concrete, mortar, and other cementitious mixtures to improve mechanical strength, durability, and surface performance, including conventional and 3D-printed applications. Use at the dosage and in the manner described in the product Technical Data Sheet (TDS).

Restrictions on use: For industrial and professional use only. Not for consumer use. Not for food, drug, cosmetic, or medical use.

1.4 Supplier

VeroTouch Sciences LLC

Headquartered in Colorado, USA

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1.5 Emergency telephone number

Emergency telephone: (719) 699-8811. In the event of extreme situations, please also call 911

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture (OSHA HCS / GHS-US)

- Skin corrosion/irritation — Category 2 (H315)
- Serious eye damage/eye irritation — Category 2B (H320)
- Specific target organ toxicity, single exposure (respiratory tract irritation) — Category 3 (H335)

2.2 Label elements

Pictogram:



GHS07 (exclamation mark)

Signal word: Warning

Hazard statements:

- H315 — Causes skin irritation
- H320 — Causes eye irritation
- H335 — May cause respiratory irritation

Precautionary statements — Prevention:

- P261 — Avoid breathing mist, vapors, or spray.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P271 — Use only outdoors or in a well-ventilated area.
- P280 — Wear protective gloves and eye protection.

Precautionary statements — Response:

- P302+P352 — IF ON SKIN: Wash with plenty of 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.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 — Call a poison center or doctor if you feel unwell.
- P332+P313 — If skin irritation occurs: Get medical advice/attention.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.

Precautionary statements — Storage:

- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements — Disposal:

- P501 — Dispose of contents and container in accordance with local, regional, and national regulations.

2.3 Other hazards (Hazards Not Otherwise Classified)

Ammonia release during use: When Limelight™ is added to portland-cement or other highly alkaline cementitious mixtures, the resulting high-pH environment liberates ammonia (NH_3) gas. Release is greatest during mixing, placement, and the first hour of curing and decreases as the material hardens; it is typically negligible once the cementitious material has cured. In enclosed or poorly ventilated areas, released ammonia may reach concentrations that cause irritation of the eyes, nose, throat, and respiratory tract. Provide adequate ventilation and, where necessary, respiratory protection during mixing and placement (see Sections 7 and 8).

The product as supplied (pH 7.5–8.0) has only a slight ammoniacal odor and releases little ammonia until it contacts an alkaline cementitious system.

2.4 Unknown acute toxicity

Not applicable. No components present at relevant concentrations have unknown acute toxicity.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Mixture (aqueous solution)

Chemical name	CAS No.	Concentration	GHS-US classification
Proprietary active ingredient (inorganic salt)	Trade secret*	Trade secret*	Skin Irrit. 2 (H315) Eye Irrit. 2B (H320) STOT SE 3 (H335)
Water	7732-18-5	Balance	Not classified

**Trade secret: The specific chemical identity and exact concentration of the active ingredient are withheld as a trade secret in accordance with 29 CFR 1910.1200(i) and Appendix D to § 1910.1200. The full hazard classification of the withheld component is disclosed in the table above. This information will be made available to a treating physician or nurse in a medical emergency, and to safety and health professionals, employees, or their designated representatives, under the conditions set forth in 29 CFR 1910.1200(i) via the emergency contact listed in Section 1.*

Full text of hazard (H) statements is given in Section 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice and show this SDS or the product label where possible.
Inhalation: Remove the affected person to fresh air and keep them comfortable for breathing. This includes exposure to ammonia released during use. If irritation, coughing, or other symptoms develop or persist, get medical advice/attention.
Skin contact: Remove contaminated clothing. Wash affected skin with plenty of mild soap and water. If skin irritation occurs or persists, get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact: Rinse cautiously with plenty of water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion: Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Obtain medical attention if a large amount is swallowed or if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Skin: Irritation (redness).
Eyes: Irritation (redness, discomfort).
Inhalation: Respiratory tract irritation; ammonia released during mixing may cause irritation of the nose, throat, and respiratory tract.
Ingestion: Not an expected route of exposure under normal conditions of use.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. In a medical emergency, the specific identity of the proprietary active ingredient is available to the treating physician or nurse via the emergency contact listed in Section 1.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable and unsuitable extinguishing media

Suitable: The product is a non-combustible aqueous solution. Use extinguishing media appropriate to the surrounding fire (water spray or fog, carbon dioxide, dry chemical, or alcohol-resistant foam).
Unsuitable: Do not direct a heavy or solid water stream into open containers (may cause splashing).

5.2 Specific hazards arising from the chemical

The product itself is not flammable and presents no direct fire or explosion hazard. On exposure to extreme heat or fire, thermal decomposition may release ammonia (NH_3), oxides of nitrogen (NO_x), oxides of phosphorus (PO_x), and other irritating or toxic fumes.

5.3 Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Use water spray to cool fire-exposed containers. Prevent fire-fighting runoff from entering drains, sewers, and waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Non-emergency personnel: Avoid contact with skin and eyes. Avoid breathing any mist or vapor. Ensure adequate ventilation. Wear appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away.
Emergency responders: Equip cleanup personnel with proper protective equipment as described in Section 8.

6.2 Environmental precautions

Prevent the product from entering drains, sewers, soil, surface water, and groundwater. Constituents may act as nutrients; large or repeated releases to surface water may contribute to nutrient enrichment (eutrophication). Notify the appropriate authorities if the product enters sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Contain the spill. Absorb with inert absorbent material (for example, sand, vermiculite, or earth) and collect into suitable closed containers for disposal. Rinse the affected area with water and prevent rinse water from entering waterways.

6.4 Reference to other sections

See Section 8 (Exposure controls / personal protection) and Section 13 (Disposal considerations).

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing mist, vapors, or spray. Wash hands and exposed skin thoroughly after handling and before eating, drinking, or smoking. Do not eat, drink, or smoke when using this product. Wear appropriate personal protective equipment (see Section 8).

Ventilation during use: Because ammonia gas is released when the product is mixed into cementitious materials, provide adequate general and/or local exhaust ventilation during batching, mixing, placement, and early curing — particularly in enclosed, confined, or poorly ventilated spaces. Where ventilation cannot keep airborne ammonia below the applicable exposure limits, use respiratory protection (see Section 8).

Use separate addition lines and do not pre-blend with neat high-range water-reducer (HRWR) concentrates, per the product Technical Data Sheet.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store sealed in original containers in a cool, dry, well-ventilated area between 45 °F and 90 °F (7 °C–32 °C). Protect from freezing. Keep containers tightly closed when not in use. Shake or recirculate before use following extended storage. Shelf life is 12 months in unopened containers.

Incompatible materials: Strong acids, strong bases/alkalis, and strong oxidizing agents. Contact with strongly alkaline materials liberates ammonia gas.

Packaging: Store only in containers of the same material as the original packaging.

7.3 Specific end use(s)

Chemical admixture for concrete and cementitious mixtures. Use in accordance with the product Technical Data Sheet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The product as supplied has no established occupational exposure limit. The principal airborne hazard during use is ammonia (NH_3) gas liberated when the product contacts alkaline cementitious materials. The applicable occupational exposure limits for ammonia are:

Component	OSHA PEL	ACGIH TLV	NIOSH REL / IDLH
Ammonia (NH_3) — generated during use (CAS 7664-41-7)	50 ppm (35 mg/m³) TWA	25 ppm TWA; 35 ppm STEL	REL 25 ppm (18 mg/m³) TWA; 35 ppm STEL (15 min). IDLH 300 ppm.

8.2 Appropriate engineering controls

Provide adequate general ventilation. Use local exhaust ventilation at mixing and placement points to control ammonia released during use and to keep airborne concentrations below the applicable exposure limits. Emergency eyewash and washing facilities should be available in the work area.

8.3 Individual protection measures (personal protective equipment)

Eye / face protection: Chemical splash goggles or safety glasses with side shields.

Hand protection: Chemical-resistant gloves (for example, nitrile or neoprene).

Skin and body protection: Suitable protective clothing to prevent skin contact.

Respiratory protection: Where airborne ammonia may exceed the applicable exposure limits — for example during mixing or placement in enclosed or poorly ventilated areas — wear a NIOSH-approved respirator fitted with ammonia cartridges, or an appropriate air-supplied respirator for high concentrations, used within a respiratory protection program that meets OSHA 29 CFR 1910.134. Follow the OSHA requirements for ammonia and air contaminants (29 CFR 1910.1000).
Hygiene measures: Do not eat, drink, or smoke when using this product. Wash hands and exposed areas after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear to slightly hazy aqueous liquid
Color: Colorless to pale
Odor: Slight ammoniacal / characteristic
Odor threshold: No data available
pH: 7.5 – 8.0, mildly alkaline
Melting / freezing point: Estimated freezing onset: about -10 to -12 °C (protect from freezing)
Initial boiling point: Approx. 103 to 105°C
Flash point: Not applicable (non-flammable aqueous solution)
Evaporation rate: Slower than water
Flammability (solid, gas): Not applicable
Flammability limits (upper/lower): Not applicable
Vapor pressure: No data available
Vapor density: No data available
Relative density / specific gravity: 1.17 – 1.18
Solubility (in water): Miscible / soluble
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: Not applicable
Viscosity: Approx. 2 to 3 mPa·s, slightly thicker than water
Explosive properties: Not explosive
Oxidizing properties: Not oxidizing

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal conditions of use, storage, and transport.

10.2 Chemical stability

Stable under recommended storage conditions, as listed in TDS. Protect from freezing.

10.3 Possibility of hazardous reactions

Contact with strongly alkaline materials, such as portland cement and other cementitious binders, liberates ammonia gas. Hazardous polymerization will not occur.

10.4 Conditions to avoid

Freezing; extreme temperatures; contact with incompatible materials.

10.5 Incompatible materials

Strong acids, strong bases/alkalis, and strong oxidizing agents.

10.6 Hazardous decomposition products

Under normal conditions, none. On contact with alkaline cementitious systems, ammonia (NH_3) is released (see Sections 2.3, 7, and 8). Thermal decomposition (fire or extreme heat) may produce ammonia, oxides of nitrogen (NO_x), oxides of phosphorus (PO_x), and carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Skin and eye contact; inhalation of mist or of ammonia released during use. Ingestion is not an expected route of exposure.

11.2 Information on toxicological effects

Acute toxicity (oral, dermal, inhalation): Not classified. Based on available data on the components, the acute toxicity classification criteria are not met.
Skin corrosion/irritation: Causes skin irritation (Category 2).
Serious eye damage/irritation: Causes eye irritation (Category 2B).
Respiratory or skin sensitization: Not classified.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified. None of the components is listed as a carcinogen by IARC, NTP, or OSHA at the concentrations present.
Reproductive toxicity: Not classified.
STOT — single exposure: May cause respiratory irritation (Category 3).
STOT — repeated exposure: Not classified.
Aspiration hazard: Not classified.

11.3 Symptoms

Skin contact: redness and irritation. Eye contact: redness and discomfort. Inhalation: irritation of the nose, throat, and respiratory tract, particularly from ammonia released during mixing and placement.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The mixture is not classified as hazardous to the aquatic environment. Based on available data on the components, the acute and chronic aquatic toxicity classification criteria are not met.

12.2 Persistence and degradability

Not established. The inorganic active constituent is not subject to organic biodegradation.

12.3 Bioaccumulative potential

Not established; bioaccumulation is not expected.

12.4 Mobility in soil

The product is water-soluble and may be mobile in soil.

12.5 Other adverse effects

Constituents may act as plant nutrients; large or repeated releases to surface water may contribute to nutrient enrichment (eutrophication). Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Dispose of contents and container in accordance with all applicable local, regional, state/provincial, and federal/national regulations.
- This product, as supplied, is not expected to be a hazardous waste under the U.S. Resource Conservation and Recovery Act (RCRA, 40 CFR 261). The user is responsible for determining the correct waste classification at the time of disposal.
- Do not discharge into drains, sewers, soil, or waterways.

- Containers may retain product residue. Triple-rinse empty containers and dispose of or recycle them in accordance with regulations. Do not reuse empty containers for other purposes.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

Regulation	Status
DOT (U.S.)	Not regulated for transport
TDG (Canada)	Not regulated for transport
IMDG (maritime)	Not regulated for transport
IATA (air)	Not regulated for transport

UN number: None (not regulated)
Proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards (marine pollutant): Not classified
Transport in bulk: Not applicable
Special precautions for user: Protect containers from freezing during transport.

SECTION 15: REGULATORY INFORMATION

15.1 U.S. federal regulations

TSCA (Toxic Substances Control Act): All intentionally added components of this product are listed on, or exempt from, the TSCA Chemical Substance Inventory.
SARA Section 311/312 hazard categories: Skin corrosion/irritation; serious eye damage/irritation; specific target organ toxicity (single exposure) — respiratory.
SARA Section 313: This product is not formulated with chemicals listed under SARA Section 313 above de minimis thresholds. Note: ammonia is a Section 313–listed chemical; it is not present in the product as supplied but is generated upon use in cementitious systems. Evaluate reporting obligations based on actual use, if applicable.
CERCLA: No reportable quantity is assigned to the product as supplied.

15.2 U.S. state regulations

California Proposition 65: This product does not contain substances known to the State of California to cause cancer or reproductive toxicity at levels requiring a warning.
State Right-to-Know: This product may contain components subject to state right-to-know requirements. The specific identity of the active ingredient is maintained as a trade secret as described in Section 3.

15.3 Canada

WHMIS 2015: Classification: Skin Irritation Category 2; Eye Irritation Category 2B; STOT-SE Category 3. This SDS contains the information required by the Hazardous Products Regulations (HPR). All components are listed on the Canadian DSL or are exempt.

SECTION 16: OTHER INFORMATION

Issue date: June 25, 2026
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Prepared in accordance with: OSHA Hazard Communication Standard (29 CFR 1910.1200, HazCom 2012, aligned with the GHS) and the Canadian Hazardous Products Regulations.

Full text of hazard (H) statements

- H315 — Causes skin irritation
- H320 — Causes eye irritation
- H335 — May cause respiratory irritation

NFPA 704 and HMIS ratings

NFPA 704: Health 2 · Flammability 0 · Instability 0
HMIS: Health 2 · Flammability 0 · Physical Hazard 0 · Personal protection: see Section 8

Abbreviations

ACGIH — American Conference of Governmental Industrial Hygienists; CAS — Chemical Abstracts Service; CERCLA — Comprehensive Environmental Response, Compensation, and Liability Act; DSL — Domestic Substances List; GHS — Globally Harmonized System; HMIS — Hazardous Materials Identification System; IARC — International Agency for Research on Cancer; IDLH — Immediately Dangerous to Life or Health; NIOSH — National Institute for Occupational Safety and Health; NTP — National Toxicology Program; OSHA — Occupational Safety and Health Administration; PEL — Permissible Exposure Limit; REL — Recommended Exposure Limit; SARA — Superfund Amendments and Reauthorization Act; STEL — Short-Term Exposure Limit; STOT (SE/RE) — Specific Target Organ Toxicity (Single/Repeated Exposure); TLV — Threshold Limit Value; TSCA — Toxic Substances Control Act; TWA — Time-Weighted Average; WHMIS — Workplace Hazardous Materials Information System.

Disclaimer

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End of Safety Data Sheet