



SAFETY DATA SHEET

Phoscrete Formula 1-HF Activator
SDS-PC-F1HF-ACT
Version 3.0

SAFETY DATA SHEET: Phoscrete Formula 1-HF Activator

Section 1: Identification

Field	Value
Product identifier	Phoscrete Formula 1-HF Activator
Abbreviation	F1-HF Activator
Document ID	SDS-PC-F1HF-ACT
Part number	PC-F1-HF-ACT
Recommended use	Concrete/mortar admixture / activator component
Uses advised against	No other uses are advised.
Manufacturer	Phoscrete Corporation
Address	792 Northeast 40th Court, Oakland Park, FL 33334
Telephone	+1-561-420-0595
Email	safety@phoscrete.com
Website	https://www.phoscrete.com
Emergency phone	CHEMTREC 24 Hours 800-424-9300 / +1 703-527-3887
CHEMTREC CCN	866520

Section 2: Hazard(s) Identification

Classification (29 CFR 1910.1200)

Hazard class	Category
Serious eye damage/eye irritation	Eye Dam. 1

Label elements

Element	Detail
Signal word	Danger



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Pictogram	Corrosion (GHS05)
Hazard statements	H318: Causes serious eye damage.
Precautionary statements	P264 + P265: Wash hands thoroughly after handling. Do not touch eyes. P280: Wear eye protection / face protection. P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317: Get medical help.

Other hazards

Field	Value
Hazards not otherwise classified	Acidic aqueous solution, pH approximately 2.2. Mists or aerosols may cause respiratory irritation.
Unknown acute toxicity	No ingredient present at one percent or greater has unknown acute toxicity.

Section 3: Composition / Information on Ingredients

Component	CAS No.	EC No.	Concentration	Classification / Notes
Aluminium tris(dihydrogen phosphate) (MALP)	13530-50-2	236-875-2	45-50%	Eye Dam. 1 H318

The remaining ingredients are not classified as health hazards under 29 CFR 1910.1200. Their specific identities and concentrations are withheld as proprietary information.

Section 4: First-Aid Measures

First-aid measures by route

Route	Measure
Eye contact	Aluminium tris(dihydrogen phosphate) is corrosive to the eyes. Rinse cautiously with water for several minutes; remove contact lenses if easy; continue rinsing; immediately obtain medical attention.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
Inhalation	If exposed by inhalation, provide fresh air. If symptoms occur, seek medical advice.



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Ingestion	Rinse mouth, then drink plenty of water. Do not induce vomiting. If symptoms occur, consult a doctor.
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Symptoms and medical attention

Field	Value
Most important symptoms and effects, acute and delayed	Aluminium tris(dihydrogen phosphate) is corrosive to the eyes. No delayed effects are noted.
Indication of immediate medical attention	Obtain medical attention following eye contact.

Section 5: Fire-Fighting Measures

Field	Value
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	None known
Special protective equipment and precautions for fire-fighters	Evacuate area and contact emergency services. Wear full protective equipment including self-contained breathing apparatus when combating fire.

Section 6: Accidental Release Measures

Field	Value
Personal precautions, protective equipment, emergency procedures	Avoid contact with eyes. If contact occurs, flush immediately. Use personal protective equipment.
Environmental precautions	Do not allow concentrated solutions to enter drainage system, surface water, or ground water.
Methods and materials for containment and cleanup	Contain spill with inert absorbent material. Dispose of contaminated material according to waste disposal recommendations.

Section 7: Handling and Storage



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Field	Value
Precautions for safe handling	Ensure adequate ventilation. Avoid contact with skin and eyes.
Mixing cross-reference	This activator is combined with a silica-bearing Phoscrete dry mix during use. Avoid splash and mist when combining. See the companion dry-mix SDS.
Occupational hygiene	Do not eat, drink, or smoke when handling this product.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place.

Section 8: Exposure Controls / Personal Protection

Exposure limits

Component	OSHA PEL	ACGIH TLV
Aluminium tris(dihydrogen phosphate) (MALP)	Not established	Not established

Controls and personal protection

Field	Value
Appropriate engineering controls	Ensure work area is well ventilated or exhausted where appropriate. Provide eyewash station.
Respiratory protection	Respiratory protection is normally not required under expected use with adequate ventilation. Use NIOSH-approved respiratory protection if aerosols, mists, sprays, or airborne contaminants are generated. Where this activator is combined with dry mix and respirable crystalline silica exposure may occur, follow OSHA 29 CFR 1926.1153.
Eye protection	Safety glasses with side shields minimum. Use chemical splash goggles where splash hazards exist. For this serious eye damage product, use eye and face protection appropriate to the hazard.
Hand protection	Chemical-resistant gloves rated for acids and phosphate solutions per EN 374 or ASTM F739. Recommended materials: nitrile rubber, butyl rubber, or neoprene. Minimum thickness: 0.4 mm. Breakthrough time: greater than 480 minutes at 0.4 mm.
Skin and body protection	Long sleeves and protective work clothing. Use additional chemical protection where splash hazards exist.



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Section 9: Physical and Chemical Properties

Property	Value
Physical state	Liquid
Color	Pale yellow
Odor (includes odor threshold)	Odorless; odor threshold not determined
Melting point/freezing point	Not determined
Boiling point	Approximately 212 F (100 C), aqueous solution, loses water
Flammability	Not applicable (liquid; aqueous, non-combustible)
Lower and upper explosion limit	Not applicable
Flash point	Not applicable (aqueous, non-combustible)
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined (solution loses water above approximately 100 C)
pH	2.2
Kinematic viscosity	Not determined
Solubility	Miscible in water
Partition coefficient n-octanol/water	Not applicable (inorganic salt in aqueous solution)
Vapor pressure (includes evaporation rate)	Approximately that of water; evaporation rate less than one (butyl acetate = 1)
Density and/or relative density	1.48 at 20 C
Relative vapor density	Not determined (evolved vapor is essentially water vapor)
Particle characteristics	Not applicable (liquid)

Section 10: Stability and Reactivity

Field	Value
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Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	None known under normal use
Incompatible materials	Strong bases, strong oxidizers, reactive metals
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Field	Value
Likely routes of exposure	Eye contact (primary); skin contact; inhalation of mists or aerosols; ingestion (incidental)
Symptoms related to characteristics	Corrosive to the eyes. Mists or aerosols may cause respiratory irritation.
Delayed, immediate, and chronic effects	Causes serious eye damage on contact. No delayed or chronic effects are noted.
Serious eye damage	Causes serious eye damage (Eye Dam. 1 H318, driven by the MALP component).
Carcinogen listings (NTP / IARC / OSHA)	No component present above cut-off concentrations is listed in the NTP Report on Carcinogens, by IARC, or by OSHA.
Numerical measures of toxicity	No product-specific acute toxicity data for the mixture as a whole. Ingredient acute toxicity data available in raw-material SDS.

Section 12: Ecological Information

Field	Value
Ecotoxicity	No data available for toxicity, persistence, bioaccumulation, mobility, or PBT/vPvB
Other	Do not allow concentrated solutions to enter drainage system, surface water, or ground water.



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Section 13: Disposal Considerations

Field	Value
Disposal methods	Dispose of in accordance with national and local regulations. Unused product is not expected to meet RCRA hazardous waste characteristics. pH 2.2 is above the D002 corrosivity threshold of 2.0. Confirm the actual waste-stream pH. The generator is responsible for waste classification.

Section 14: Transport Information

Field	Value
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Environmental hazards	None identified
Transport classification	Not classified as dangerous goods for transport under applicable regulations

Section 15: Regulatory Information

California Proposition 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm at levels requiring a warning under Proposition 65.

Federal

Field	Value
OSHA	This SDS is prepared to support compliance with OSHA 29 CFR 1910.1200.

Section 16: Other Information

Field	Value
Prepared by	Brian Mintz, General Manager



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Approved by	Jorge Giro, Director of Product Development and Support
Date of preparation or last revision	2026-08-23

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