SAFETY DATA SHEET: Phoscrete Formula 1-HC Activator

Section 1: Identification

Field	Value
Product identifier	Phoscrete Formula 1-HC Activator
Abbreviation	F1-HC Activator
Document ID	SDS-PC-F1HC-ACT
Part number	PC-F1-HC-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
Skin corrosion	Category 1C
Serious eye damage	Category 1

Label elements

Element	Detail
Signal word	Danger
Pictogram	Corrosion (GHS05)
Hazard statements	H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
Precautionary statements	P260 Do not breathe mist or spray. P264 Wash hands thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection, and face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

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	30-60%	Skin Corr. 1C H314; 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	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

Symptoms and medical attention

Field	Value
Most important symptoms and effects, acute and delayed	Causes severe skin burns and serious eye damage. Symptoms may include pain, redness, and chemical burns at the point of contact.
Indication of immediate medical attention	Immediate medical attention is required for skin or eye contact. Treat symptomatically.

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	Non-combustible aqueous solution. Thermal decomposition in a fire may release oxides of phosphorus.
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	Wear acid-resistant gloves, eye and face protection, and protective clothing. Do not breathe mist. Ensure adequate ventilation.
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. Absorb with inert material and neutralize residue with an alkaline agent such as soda ash or lime. Collect into compatible plastic containers for disposal. Do not use metal containers.

Section 7: Handling and Storage

Field	Value
Precautions for safe handling	Handle in corrosion-resistant equipment. Avoid contact with skin and eyes. Do not breathe mist. Keep away from reactive metals.
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	Chemical splash goggles and a face shield. Safety glasses alone are not adequate for this corrosive product.
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. Select breakthrough time from the glove manufacturer's permeation data for phosphoric acid solutions.
Skin and body protection	Long sleeves and protective work clothing. Use additional chemical protection where splash hazards exist.

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	Aqueous phase miscible in water. Contains a water-immiscible soy methyl ester fraction that separates as a top layer on standing.
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
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	Combining with the companion Phoscrete dry mix is the intended use; the reaction is exothermic and sets the material. No other hazardous reaction is 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	None under normal conditions of storage and use. Thermal decomposition may release oxides of phosphorus.

Section 11: Toxicological Information

Field	Value
Likely routes of exposure	Skin and eye contact (primary); inhalation of mists or aerosols; ingestion (incidental)
Symptoms related to characteristics	Corrosive. Causes severe skin burns and serious eye damage on contact. Mists or aerosols may cause respiratory irritation.
Delayed, immediate, and chronic effects	Causes severe skin burns and serious eye damage on contact. No delayed or chronic effects are noted.
Serious eye damage	Causes severe skin burns and serious eye damage (Skin Corr. 1C H314; 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.

Section 13: Disposal Considerations

Field	Value
Disposal methods	Dispose of in accordance with national and local regulations. The generator is responsible for waste classification.

Section 14: Transport Information

Field	Value
UN number	UN 3264

UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (aluminium tris(dihydrogen phosphate))
Transport hazard class	Class 8 (Corrosive)
Packing group	PG III
Environmental hazards	None identified
Transport classification	UN 3264, Corrosive liquid, acidic, inorganic, n.o.s. (aluminium tris(dihydrogen phosphate)), Class 8 (Corrosive), PG III.

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
Approved by	Jorge Giro, Director of Product Development and Support
Date of preparation or last revision	2026-10-19

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