

SAFETY DATA SHEET

pHresh
Technologies, LLC

pHresh 10.0 Acidic Calcium Sulfate

Section 1	Product Description
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PRODUCT NAME: pHresh 10.0
 Recommended Use: Acidulant
 Synonyms: Acidified calcium sulfate
 Supplier: pHresh Technologies, LLC
 1460 NW Olympic Dr. Suite K Grain Valley, MO 64029 Tel: 888.998.7774
 Emergency Telephone: Chemtrec 800.424.9300

Section 2	Hazard Identification
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**WARNING**

Hazard Statement: May be corrosive to Metals
 May cause eye irritation
 May cause skin irritation

Prevention: Keep only in original container.
 Do not breathe mist/vapors/spray.
 Do not get in eyes, or skin, or on clothing.
 Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.

Response: Absorb spillage to avoid material damage
 IF ON SKIN: Remove all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
 IF SWALLOWED: Rinse mouth. Do not induce vomiting
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. If irritation persists: get medical attention.
 IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing.

Storage/Disposal: Store in corrosive resistant/ container with a resistant inner liner.
 Store locked up.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

Section 3	Composition / Information on Ingredients
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Chemical Name	CAS #	%
Acidic calcium sulfate	NA	40-60
Water	7732-18-5	40-60

Section 4	First Aid Measures
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Inhalation: Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air.

Eyes: In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

Skin Contact: For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse.

Ingestion: If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

Section 5	Firefighting Procedures
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Extinguishing Media: Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

Fire Fighting Methods and Protection: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Structural firefighter's clothing is ineffective for fires involving this material. Stay away from sealed containers.

Fire and/or Explosion Hazards: A mild exothermic reaction may occur when undiluted pHresh 10.0 is added to water.

Section 6	Spill or Leak Procedures
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Steps to Take in Case Material is Released or Spilled: Absorb spillage to prevent material damage.
 Ventilate area of leak or spill. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer. US regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is 800-424-8802.

Section 7		Handling and Storage	
Handling:	Product should be used in accordance with good industrial principals for handling and storage of hazardous chemicals. Avoid contact with skin or eyes.		
Storage:	Store in well ventilated storage area. Protect from physical damage. Keep away from incompatible materials. When diluting, always add pHresh 10.0 to water; never add water to undiluted pHresh 10.0.		
Storage Criteria:	Corrosive storage.		
Section 8		Protection Information	
Airborne Exposure Limits:	For undiluted pHresh 10.0: -OSHA Permissible Exposure Unit (PEL): 1mg/m3 (TWA) -ACGIH Threshold Unit Value (TLV): 1 mg/m3 (TWA), 3 mg/m3 (STEL), A2 - suspected human carcinogen for ANY strong inorganic acid mists.		
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent long term skin contact.		
Eye Protection:	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area		
Section 9		Physical Data	
Boiling Point:	104°C – 105°C	Appearance:	Clear to slightly cloudy or opaque
Physical State:	Liquid	Odor:	Odorless and slightly acidic
Specific Gravity:	(H ₂ O = 1.0): 1.28 - 1.30	pH:	<1.0
Section 10		Reactivity Data	
Chemical Stability:	Stable under normal conditions		
Conditions to Avoid:	Excessive Heat (>100°C) and incompatibles.		
Materials to Avoid:	Potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, halogens, metal acetyl ides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing and reducing agents and many other reactive substances.		
Hazardous Decomposition Products:	Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.		
Section 11		Toxicological Information	
THIS SECTION REFERS TO DOSING IN CONCENTRATED FORM (EXTREMELY LOW pH), AND DOES NOT APPLY TO DILUTED DOSAGE FORMS.			
Toxic Dose:	Oral rat LD ₅₀ : > (greater than) 2140 mg/kg; inhalation rat LC ₅₀ : 510 mg/m3/2H; standard Draize, eye rabbit, 250 µg (severe); investigated as a tumorigen, mutagen, reproductive effector (0.1N solution).		
Carcinogenicity:	Cancer Status: The International Agency for Research on Cancer (IARC) has classified ALL "strong inorganic acid mists" as a known human carcinogen, (IARC category 1).		
Section 12		Ecological Information	
Environmental Fate:	When released into the soil, this undiluted pHresh 10.0 may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.		
Environmental Toxicity:	This undiluted pHresh 10.0 may be dangerous to aquatic life.		
Section 13		Disposal Information	
Disposal Methods:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.		
Waste Class:	RCRA P-Series: None listed.	RCRA U-Series:	None listed.
Section 14		Transport Information	
D.O.T.:	UN3264, Corrosive liquid, Acidic, Inorganic, N.O.S (sulfuric acid solution saturated with calcium sulfate), 8, PGII		
Section 15		Regulatory Information	
TSCA Status:	CAS# 7664-93-9 is listed on the TSCA inventory.		
Health & Safety Reporting List:	None of the chemicals are on the Health & Safety Reporting List.		
Chemical Test Rules:	None of the chemicals in this product are under a Chemical Test Rule.		
Section 12b:	None of the chemicals are listed under TSCA Section 12b.		
TSCA Significant New Use Rule:	None of the chemicals in this material have a SNUR under TSCA.		
SARA Section 313	pHresh 10.0 may contain sulfuric acid (CAS# 7664-93-9, 95 98 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.		
Clean Air Act:	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.		
Clean Water Act:	CAS# 7664-93-9 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.		
OSHA:	None of the chemicals in this product are considered highly hazardous by OSHA.		
State:	CAS# 7664-93-9 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts. California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations European Labeling in Accordance with EC Directives		
Section 16		Other Information	
Creation Date	6/20/2005	Revision Date:	4/30/15
Disclaimer:	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall pHresh Technologies be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if pHresh Tehcnologies has been advised of the possibility of such damages.		