

SAFE-pHix brand® LpH-100

"Providing Effective Results with "Acidic Calcium Sulfate"
5470 Wilson Rd. Colo. Springs, CO 80919

SAFETY DATA SHEET**LpH 100 (aka) SAFE-pHix brand Acidic Calcium Sulfate, BioFluid 100,****Product ID:** MC2473, Acidic Calcium Sulfate**Revised:** February 09, 2021**Replaces:** July 12, 2019**1. IDENTIFICATION**

Product Identifier: LpH 100
Other Identifiers: MC2473, (ACS) Acidified Calcium Sulfate (SAFE-pHix brand)
CAS Number: MIXTURE NA

Distributor: SAFE-pHix LLC, 5470 Wilson Rd., Colorado Springs, CO 80919
Chemical Information: 719-661-8200
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

2. HAZARD(S) IDENTIFICATION

GHS Classification(s): Substance or mixture corrosive to metals Category 1
 Skin Irritation Category 2
 Eye Irritation Category 2A

Signal Word:

WARNING

GHS Hazard Statements: May be corrosive to metals. Causes skin irritation. Causes eye irritation.
 If exposed or concerned: Get medical advice/attention. See First Aid Measures below Sect. 4

Precautionary Statements: **Use ONLY as directed through a Non-Handling & Non-Exposer Closed System.**
Prevention **Do Not Spray or Mist** to prevent breathing dust/fumes/gas/mist/vapors/sprays
 Keep in original container: Wear protective gloves/protective clothing/eye & face protection.

Response: If SWALLOWED: Rinse mouth, Do NOT induce vomiting: If ON SKIN, (or hair) Rinse with water: EYES; Rinse with water several minutes and time, Call Doctor or Poison Center.

Storage: Store in well-ventilated place, tightly closed and in a secure manner.

Disposal: Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: None Known

Acute Toxicity 100 % of mixture consists of ingredient(s) with Unknown Toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Mixture or Common Name/Synonyms</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Acidic Calcium Sulfate	NA	40-60%
Water	7732-18-5	40-60%

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

4. FIRST-AID MEASURES**Description of Necessary Measures:**

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: If on skin: Immediately flush skin with plenty of water while removing contaminated clothing. Wash clothing before reuse. Do not apply oils or ointments unless ordered by the physician.

Inhalation: If Inhaled: Remove to fresh air and keep at rest in a position comfortable to breathing. Get medical attention.

Ingestion: If swallowed: Drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide. Dry chemical. Foam.

Specific Hazards Arising from the Chemical: During fire, sulfur oxide gases hazardous to health may be formed.

Fire and Explosion Hazards: Water. Do not use water jet as an extinguisher, as this will spread the fire.

Special Protective Equipment and Precautions for Fire-Fighters: In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

Methods and Materials for Containment and Clean Up: Contain spill, place into drums for proper disposal. Flush remaining area with water and neutralize with Soda Ash, Lime or strong soap solution, and dispose of properly. Avoid direct discharge of undiluted mixture to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Use through Closed System. Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Do not breathe mist/vapor. Use good industrial hygiene practices. Do not empty into drains. NEVER add water to acid.

Conditions for Safe Storage, Including any Incompatibilities: Store in a well-ventilated place. Store away from incompatible materials. Store in containers designed for this type product and strength. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Acidic Calcium Sulfate	1 mg/m3 TWA

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Acidic Calcium Sulfate	0.2 mg/m3 TWA (thoracic particulate matter)

Individual Protection Measures:

Engineering Controls: Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Acid-proof. Chemical-resistant. Impervious. Protective gloves:

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved air-purifying respirator with: Acid gas cartridge and Dust/mist filter. NIOSH-Approved positive pressure supplied air respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Rubber boots and gloves.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear. Colorless.

Odor: No odor.

Odor Threshold: N.D.

pH: < 2 (as is)

Freezing Point (Minus -4 deg. F):

Melting Point (deg. F): N.D.

Initial Boiling Point or Boiling Range: N.D.

Flash Point: N.A.

Flash Point Method: N.A.

Evaporation Rate (nBuAc = 1): N.D.

Flammability (solid, gas): N.D..

Fire Point: N.D.

Lower Explosion Limit: N.A.

Upper Explosion Limit: N.A.

Vapor Pressure (mm Hg): N.D.

Vapor Density (air=1): N.D.

Specific Gravity or Relative Density: 1.2865 @ 25 Deg. C

Solubility in Water: Complete

Partition Coefficient (n-octanol/water): N.D.

Autoignition Temperature: No Data

Decomposition Temperature: N.D.

Viscosity: N.D.

Volatile (wt%): N.D.

VOC (lbs/gal): N.D.

10. STABILITY AND REACTIVITY

Reactivity: Through a Closed System, this product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Stable under normal conditions and utilized through a Closed System.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Contact with metal may release flammable hydrogen gas. Contact with incompatible materials. Do not mix directly with other chemicals, only into water as directed. To dilute: Add slowly to warm water; not water to product.

Incompatible Materials: Bases. Amines. Metals. Organic compounds. This product may react with reducing agents.

Hazardous Decomposition Products: Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Use through Closed System to avoid exposure to Eyes, Ingestion. Inhalation and skin.

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: Causes eye burns. Permanent eye damage or blindness could result. Use only through Closed System.

Skin Contact: May cause skin irritation or burns from prolonged contact. Use only through Closed System

Skin Absorption: No data available. Use only through Closed System.

Inhalation: Vapors from misting will irritate throat and respiratory system and cause coughing. Use only through Closed System.

Ingestion: Causes digestive tract burns. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. **Use only through Closed System.**

Numerical Measures of Toxicity:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Acidic Calcium Sulfate	No Data	No Data	2H Rat: 510mg/m3
Acute Toxicity Estimate (ATE)	0.1313		

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No Data available.

Chemical Fate Information: No Data available.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002

Disposal Method: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. Dilute this material residue and its container with water, then discard after rinsing with soapy water.

14. TRANSPORT INFORMATION**DOT (Department of Transportation):****Identification Number:** UN3264**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(CONTAINS SULFURIC ACID)**Hazard Class:** 8**Packing Group:** II**Label Require:** CORROSIVE**Reportable Quantity (RQ):** 1000# (Sulfuric Acid)**15. REGULATORY INFORMATION****TSCA Inventory Status:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.**SARA Title III Section 311/312 Category Hazards:**

<u>Immediate (Acute)</u>	<u>Delayed (Chronic)</u>	<u>Fire Hazard</u>	<u>Pressure Release</u>	<u>Reactive</u>
Yes	Yes	No	No	Yes

<u>Regulated Components:</u>	<u>CAS</u>	<u>CERCLA</u>	<u>SARA</u>	<u>SARA</u>	<u>U.S.</u>	<u>WI</u>	<u>Prop</u>
<u>Component</u>	<u>Number</u>	<u>RQ</u>	<u>EHS</u>	<u>313</u>	<u>HAP</u>	<u>HAP</u>	<u>65</u>
Acidic Calcium Sulfate	NA/Proprietary	Yes	Yes	Yes	No	Yes	Yes

***Prop 65 – May contain the following trace components: Sulfur Dioxide**

Note: * Sulfuric acid appears on the Section 313 list. However, the listing only applies to the aerosol form of sulfuric acid.
 This product is only dispensed through a closed system, with NO misting, spraying or aerosol forms.

16. OTHER INFORMATION**Hazard Rating System**

Health: 3
Flammability: 0
Reactivity: 2

NFPA Rating System

Health: 3
Flammability: 0
Reactivity: 2
Special Hazard: W

SDS Abbreviations : N.A. = Not Applicable N.D. = Not Determined HAP = Hazardous Air Pollutant VOC = Volatile Organic Compound

C = Ceiling Limit N.E./Not Estab. = Not Established SDS Prepared by: NAO

SDS prepared by: SAFE-pHix LLC

Reason for Revision: Product Application recommended only through closed system. NO Misting or Spraying Applications.

Revised: July 12, 2019

Replaces: Nov. 4, 2016