

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: pHix-it
Product Code: BUI/PHIXIT
Effective Date: January 28, 2008

Hazardous Material Information System III:

Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

Manufacturer Information: Becker Underwood, Inc.
 801 Dayton Avenue
 Ames, Iowa 50010
 Information Phone: (515) 232-5907
 Emergency Phone: Chemtrec (800) 424-9300

Section 2. Ingredients and Hazards Identification

Hazardous Components		Occupational Exposure Limits		
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Citric Acid	77-92-9	15 mg/m ³	10 mg/ m ³ Res. TWA 5 mg/ m ³	10-20%
No reportable quantities of hazardous ingredients are present				
No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present				

Emergency Overview: May cause respiratory tract, eye, and skin irritation.

Potential Acute Health Effects:

- Eyes:* Short term harmful effects are not expected. However, irritation may develop causing itching and redness.
- Skin:* Short term harmful effects are not expected. However, mild skin irritation may develop causing itching and redness.
- Inhalation:* Short term harmful effects are not expected. However, exposure to vapors or mist may cause coughing or wheezing when inhaled.
- Ingestion:* Not an intended route of exposure. Short term harmful effects are not expected. However, may upset the gastrointestinal tract and cause diarrhea.

Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

Section 4. First Aid Measures

- Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Prolonged or repeated contact may result in mechanical irritation.
- Skin Contact:** Wash with soap and water.
- Inhalation:** Move to fresh air. Seek medical attention if irritation develops.
- Ingestion:** Seek medical attention.

Section 5. Fire Fighting Measures

- Flammability of Product:** Not a fire or explosion hazard when stored under normal conditions.
- Fire Fighting Media:** Foam, alcohol foam, CO₂, dry chemical, water fog.
- Protective Clothing:** This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard. No special procedures required besides standard fire fighting procedures.

Section 6. Accidental Release Measures

- Clean-Up Procedures:** Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled and closed container. Dispose of collected material according to federal, state/provincial and local environmental regulations.
- Spills and Leaks:** Contain the spill or leak to prevent discharges to surface streams or storm sewers.

Section 7. Handling and Storage

- Handling:** Avoid breathing fumes. General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment. Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin.
- Storage:** Keep container in a dry place inaccessible to children and pets at temperatures above freezing. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

- Engineering controls:** General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment.
- Personal Protection:**
- Eyes:* Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.
 - Body:* To prevent skin contact wear coveralls, apron, boots, or lab coat.
 - Hands:* Avoid skin contact by using chemically resistant gloves.
 - Respiratory:* No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists persist use appropriate NIOSH/MSHA approved organic vapor/mist respirator.
- Other:** Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

Section 9. Physical and Chemical Properties

Odor	Slight odor	Vapor Density	Heavier than air
Color	Red/Violet	Evaporation Rate	Slower than ether
Physical state	Liquid	Specific Gravity (H₂O = 1)	1.1-1.2 g/mL
pH	NA	Solubility	Water soluble
Melting/Freezing Point	NA		

Section 10. Stability and Reactivity

Chemical Stability: This material is chemically stable under normal storage and handling conditions.

Hazardous Decomposition: When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions. However, all of the water must be driven off first for this to occur.

Hazardous Polymerization: Is not known to occur.

Incompatibility (Materials to Avoid): Long term storage in direct contact with reactive metals such as aluminum, zinc, copper, nickel, magnesium, etc. Other materials to avoid include strong oxidizing agents.

Section 11. Toxicological Information

Chronic Toxicity: None known

Mutagenic Effects: None known

Teratogenic Effects: None known

Developmental Toxicity: None known

Acute Effects on Humans: May cause skin, eye, and respiratory irritation.

Sensitization: Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Existing Medical Conditions Aggravated By Exposure: May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

Section 12. Ecological Information

Ecotoxicity: No data available, however the material is not expected to have any deleterious toxic effect.

Environmental Fate: No data available regarding the environmental fate or biodegradation.

Section 13. Disposal Considerations

EPA Waste Number: Non-hazardous waste

Treatment: Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14. Transport Information

D.O.T. Classification: Not regulated

IMO/IMDG Not regulated

Classification:

IATA Classification: Not regulated

Section 15. Regulatory Information

Hazardous Material Information System III:

Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

US Federal Regulations:

Product Information: This product is not considered hazardous.

SARA 311/312:

Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA 313: No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present.

Regulatory Listings

United States (TSCA): Listed

Section 16. Other Information

The information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Becker Underwood's knowledge. Because use conditions and applicable laws may differ from one location to another and may change with time, Recipient is responsible for determining whether the information is appropriate for recipient's use. Since Becker Underwood has no control over how this information may be ultimately used, all liability is expressly disclaimed and Becker Underwood assumes no liability.