



SAFETY DATA SHEET

1. Identification:

Product Identifier: Acetic Acid, Aqueous Solutions, various dilutions

Product code: BA4006 = 0.100 N BA8040 = 0.500 N BA4005 = 1.00 N
BA8008 = 0.400 M BA8087 = 3.0% (v/v) BA8006 = 5.0% (v/v)
BA8036 = 10.0% (v/v) BA8038 = 0.25% (w/v) BA8030 = 60 g/L

Synonym(s): Acetic Acid in water, various dilutions

Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.

Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.

Address: 187 South Tilley Road
Hatfield, AR 71945

Telephone: (870) 389-6114

Website: www.bphchem.com

E-mail: support@bphchem.com

Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: This chemical is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion Category 1A

Serious eye damage Category 1

Label elements:



Signal word: Danger

Hazard statement: Corrosive! Can cause burns to eyes, skin, digestive and respiratory tracts. Severely irritating to eyes, skin, respiratory tract and lungs. May be fatal or harmful if swallowed or inhaled. Target organs identified are the kidneys, mucous membranes, skin and teeth.

Precautionary statement:

Prevention Avoid contact with eyes, skin and clothing. Wear appropriate protective equipment. Use with adequate ventilation. Avoid breathing vapor. avoid prolonged or repeated exposure. Wash thoroughly after handling. Replace cap when not in use.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Methods and materials for containment and cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Environmental precautions:	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses, or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Avoid inhalation of vapour or mist. For precautions see section 2.2
Conditions for safe storage, including any incompatibilities:	Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.

8. Exposure controls/personal protection

Exposure Guidelines:

<u>Component</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Acetic acid	10 ppm (TWA)	10 ppm (TWA)

Engineering measures: In case of insufficient ventilation, use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye/face protection:	Wear protective eyeglasses or chemical safety goggles.
Skin and body protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance:	Clear, colorless liquid
Odor:	Pungent odor of vinegar
Odor threshold:	No data available
Vapor Pressure (mm Hg):	No data available
Vapor density (Air = 1):	No data available
pH:	No data available
Relative density:	No data available
Melting point/freezing point:	No data available
Solubility in Water:	Infinite
Boiling Point (°F):	No data available

Flash point:	No data available
Evaporative Rate (H₂O = 1):	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits	
Flammability limit - lower	No data available
Flammability limit - upper	No data available
Explosive limit – lower	No data available
Explosive limit - upper	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
Specific Gravity (H₂O = 1):	No data available
Percent Volatile by Volume:	No data available

10. Stability and reactivity

Reactivity:	This product is stable and nonreactive under normal conditions of use, storage, and transport.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Excessive heat or flame.
Incompatible materials:	Oxidizing agents, Metals, Amines, Alcohols, Peroxides, permanganates, e.g. potassium permanganate, Soluble carbonates and phosphates, Hydroxides
Hazardous decomposition products:	No information found.

11. Toxicological information

Information on likely routes of exposure:

Ingestion:	Never give anything by mouth to an unconscious person. Have individual drink several glasses of water or milk. DO NOT induce vomiting. Call for medical assistance immediately.
Inhalation:	Remove person to fresh air. If breathing has stopped, perform cardio-pulmonary resuscitation. Have oxygen administered by a trained person if breathing is difficult. Obtain medical aid immediately.
Skin Contact:	Flood area with water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing and clean shoes thoroughly before reuse. Seek medical advice immediately.
Eye Contact:	Remove contact lenses, if worn. Immediately flush eyes with plenty of water for at least 15 minutes while holding lids gently, but firmly, apart. Lift upper and lower lids occasionally to ensure thorough flushing under them. Immediately call a physician.

Information on toxicological effects

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient acute toxicity data.

Component	LD₅₀ Oral	LD₅₀ Dermal	LC₅₀ Inhalation
Acetic acid	3310 mg/kg; oral mouse	No data available	No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Corrosive. May cause irritation to skin with redness, itching, scaling, and pain. May cause burns.
Serious eye damage/irritation	Vapors cause irritation to the eyes with redness, itching, watering, pain, and blurred vision. Higher concentrations or splashes may cause irreversible eye damage.
Respiratory Sensitization	Corrosive. May cause sore throat, coughing, and shortness of breath. May irritate and damage the respiratory tract and lungs.
Skin sensitization	No data available.
Carcinogenicity	Not listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulation/Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT: Not regulated as dangerous goods.

15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Not listed

Other Federal regulations

Clean Air Act	Not regulated
Clean Water Act	Not regulated
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information, including date of preparation or last revision

Revision date	February 1, 2023
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.