

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT and COMPANY IDENTIFICATION

Arch Chemicals, Inc.

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Norwalk, CT 06856-5204

For MSDS Questions: 1-800-511-MSDS
Emergency telephone: (800) 654-6911

Issue Date: 03/20/00
MSDS No.: 150000020337
Rev:
PC: 84405

For a transport accident or leak, fire or major spill, call **CHEMICAL EMERGENCY RESPONSE CENTER**, (800) 424-2466

Material Name: BAQUACIL® Premium Algicide

Read the entire MSDS for a complete hazard assessment.

SECTION 2: COMPOSITION/INFORMATION on INGREDIENTS*

<u>CAS Number</u>	<u>Ingredient Name</u>
000079-09-4	Propionic acid
Proprietary	Proprietary Ingredient
031512-74-0	Poly(oxyethylene dimethyliminio)ethylene
000064-19-7	Acetic acid

*Ingredients not precisely identified are either proprietary or nonhazardous.
Values are not product specifications. + Percent concentration by weight.

SECTION 3: HAZARDS IDENTIFICATION*

*As defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
See Section 8 for exposure guidelines & Section 11 for toxicology and ingredient specific information.

***** EMERGENCY OVERVIEW *****

LIGHT AMBER LIQUID. VINEGAR-LIKE ODOR.
RESPIRATORY IRRITANT.
EYE CORROSIVE. GASTROINTESTINAL
IRRITATION. SEVERE SKIN IRRITANT.

POTENTIAL HEALTH HAZARDS

Eye: This product contains a component(s) which is eye corrosive based on commercially available information.

Skin: This product contains a component(s) which is severe skin irritant based on commercially available information. This product may induce skin sensitization after repeated/prolonged contact with human skin.

MSDS (continued) **BAQUACIL® Premium Algicide**

- Inhalation: Vapors and/or aerosols of this material will probably irritate mucous membranes, eyes, nose, and respiratory passages.
- Ingestion: In humans, irritation of the mouth, pharynx, esophagus, and stomach can develop following ingestion of this material.

SECTION 4: FIRST AID MEASURES

General First Aid Procedures

Eyes:

Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Skin:

Remove contaminated clothing and footwear while under a safety shower. Wash off of skin with plenty of soap and water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Ingestion:

DO NOT INDUCE VOMITING. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

Inhalation:

Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: > 212°F, 100°C Method: Penske-Martin Closed Tester
Upper Flammability Limit (UFL): No Data
Lower Flammability Limit (LFL): No Data
Autoignition Temperature: No Data

Products of combustion:

Combustion products: Acetic acid vapors.

Extinguishing media:

Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Fire fighting instructions:

Wear self-contained breathing apparatus with full facepiece and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill procedures:

Wear skin, eye, and respiratory protection during cleanup.

Contain spill.

Soak up material with absorbent and shovel into a chemical waste container.

Keep out of sewers and drains.

This material is harmful to aquatic organisms. Releases to natural waters should be reported to appropriate water pollution control authorities.

Releases of untreated effluent to the sewer should be immediately reported to the public treatment works.

SECTION 7: HANDLING and STORAGE

Handling:

Avoid breathing vapors or aerosols.

Prevent skin and eye contact.

Observe recommended exposure limits.

Storage:

Keep container tightly sealed. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight, and strong acids, bases, oxidizers and reducing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:

No ACGIH TLV or OSHA PEL is assigned to this mixture. Control of exposure to below the PEL for the ingredients may not be sufficient.

Minimize exposure in accordance with good hygiene practice.

Propionic acid: The ACGIH TLV-TWA is 30 mg/m³ (10 ppm).

Acetic acid: The ACGIH TLV and OSHA PEL for acetic acid is 10 ppm, 8-hour TWA; the ACGIH STEL is 15 ppm.

Engineering controls:

Use permitted ventilation adequate to maintain safe levels.

PROTECTIVE EQUIPMENT

Respiratory protection:

If needed, use NIOSH certified respirator for organic vapors, mists and fumes.

Protective clothing:

Take all precautions to prevent skin contact. Use gloves, arm covers and apron determined to be impervious under the conditions of use. Additional protection, such as full body suit and boots, may be required depending on conditions.

Remove contaminated clothing and wash before rewearing.

Wash separately from other laundry.

MSDS (continued) **BAQUACIL® Premium Algicide**

Eye protection:

Chemical tight goggles and full faceshield.

Other:

Eyewash station and safety shower in work area.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Light Amber
Odor: Vinegar-like
Odor Threshold: No Data
Boiling Point: 244°F, 118°C
Decomposition Temperature: No Data
Melting Point: < 39°F, 4°C
Vapor Pressure (mm Hg at 20°C): No Data
Vapor Density (air = 1): No Data
Solubility in Water: Easily soluble
Solubility in Other: No Data
Octanol/Water Partition Coefficient: No Data
pH: 2.50
Specific Gravity: 1.08 g/cm³ @ 25°C
Bulk Density: No Data
% Volatile by Volume: No Data
VOC (%): No Data
Viscosity: 45.0 cP

SECTION 10: STABILITY and REACTIVITY

Chemical Stability

Stable under normal conditions.

Conditions to avoid:

None known.

Incompatibility:

Alkaline materials.

Acids. Aqueous solutions will attack aluminum and galvanized steel, producing flammable hydrogen gas.

Attacks mild steel.

Strong acids, bases, oxidizers and reducing agents.

Hazardous polymerization:

Not known to occur.

Hazardous decomposition products:

Acetic acid vapors.

MSDS (continued) **BAQUACIL® Premium Algicide**

SECTION 11: TOXICOLOGICAL INFORMATION

Regulated carcinogen(s):

This product contains no components present at concentrations equal to or greater than 0.1% listed by IARC, OSHA, NTP or ACGIH as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

LC50=<0.1 mg/L 48 hours (Ceriodaphnia dubia).

LC50=0.31 mg/L 96 hours (Fathead minnow).

Environmental fate:

No Data

Other:

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal method:

This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into waterways.

Aqueous solutions may have a pH of less than 2 and are therefore hazardous wastes under RCRA. Dispose of these wastes in a facility permitted for hazardous waste.

Container disposal:

Empty container retains potentially hazardous residue. Observe all hazard precautions. May contain corrosive material.

Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

SECTION 14: TRANSPORT INFORMATION

This material is regulated by the US DOT.

Proper Shipping Name is: Corrosive Liquid, Acidic, Organic, N.O.S. (contains propionic acid, acetic acid)

UN ID Number is: UN3265

Special Provisions: No Data

Hazard Class: 8.0

Additional Hazard Class: No Data

Additional Hazard Class: No Data

Hazard Packing Group: 3

MSDS (continued) **BAQUACIL® Premium Algicide**

DOT Hazard Information

Explosive: No

Explosive Class: No Data Description: No Data

Skin Corrosive: Yes

Metal Corrosive: Yes

Poisonous: No

SECTION 15: REGULATORY INFORMATION

TSCA (Toxic Substances Control Act):

This product is meant to be used as a FIFRA-regulated pesticide and is exempt from TSCA regulation when used as such. Do not use for other purposes.

All ingredients NOT confirmed on the TSCA Chemical Substances Inventory.
FOR TSCA EXEMPT PURPOSES ONLY!

SARA Title III (Emergency Planning and Community Right-To-Know Act):

313 Reportable ingredients:

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

California Proposition 65:

This product is not known to contain any chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

Canadian Regulations:

CEPA (Canadian Environmental Protection Act): All ingredients NOT confirmed on the DSL (Domestic Substances list).

WHMIS Classifications:

Class E -- Corrosive material (CPR62).

Class D, Division 2B, Toxic.

The New Jersey Right To Know Trade Secret Number(s) is:

Proprietary Ingredient 510390490-5015P; 510390490-5161P

SECTION 16: OTHER INFORMATION

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.*

NFPA Rating:

Health: 3

Fire: 1

Reactivity: 1

Special: No Data

MSDS (continued) **BAQUACIL® Premium Algicide**

HMIS Rating:

Health: 3

Fire: 1

Reactivity: 1

**Personal Protection: No Data

*This information is intended solely for the use of individuals trained in the particular hazard rating system.

**See appropriate MSDS section.

Revision status:

Version number: 1.0

MSDS Version date: 04/18/05

Revision: No Data

Issue date: 03/20/00

Revision:

The information herein is given in good faith but no warranty, expressed or implied, is made.

Prepared by: PJR/EL

Approved by: PJR/TW/KRB/RV/BH

Approval date: 03/20/00

THE PRODUCT NAMES LISTED ARE TRADEMARKS OF ARCH CHEMICALS, INC. OR ITS AFFILIATED COMPANIES.

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This MSDS was prepared by the Safety, Health and Environment Group of at 501 Merritt, Norwalk, CT 06856. For further questions, call during regular business hours at 1-800-511-MSDS.