

Material Safety Data Sheet

BAQUACIL AD Algicide 10

Version 1.2

Print Date 02/26/2005

Issue Date 12/24/2003

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material Name : BAQUACIL AD Algicide 10

Product Code :
MSDS Number : 150000020123

Company : **Arch Chemicals, Inc.**
501 Merritt 7 PO Box 5204
Norwalk, CT 06856-5204

Telephone : 1-800-511-MSDS
Telefax :
Emergency telephone : (800) 654-6911 Medical Emergency

For a transport accident or leak, fire or major spill, call **CHEMICAL EMERGENCY RESPONSE CENTER** (800) 424-9300.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS*

<u>CAS No. / NJRTK No.*</u>	<u>Wt %</u>	<u>Components</u>
7732-18-5	88.00	Water
67-63-0	2.00	Isopropanol
68391-01-5	9.90	n-Alkyl (c12-c18) dimethyl benzyl ammonium chloride

*Ingredients not precisely identified are either proprietary or non-hazardous; the NJRTK number for the proprietary component(s) is 510390490 (Arch Chemicals, Inc.) or 043574982 (NeoResins) followed by the 4/5 digit code above.

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

**BLUE LIQUID; BENZALDEHYDE-LIKE ODOR;
CORROSIVE TO THE GASTROINTESTINAL TRACT. SKIN IRRITANT.
RESPIRATORY IRRITANT. EYE CORROSIVE.**

Potential Health Hazards

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Eyes	This product is eye corrosive based on commercially available information.
Skin	This product is a severe skin irritant based on animal studies. The acute dermal toxicity of this product is greater than 1000 mg/kg. This product is not toxic by skin absorption. This product did not induce skin sensitization in an animal study. This product is unlikely to induce skin sensitization in humans.
Ingestion	This material will probably cause chemical burns of the mouth, pharynx, esophagus, and stomach in humans, following ingestion of this material. Injury may be severe and cause death. The acute oral toxicity of this material is between 500 and 5000 mg/kg. Relative to other materials, this material is classified as slightly toxic by ingestion.
Inhalation	Vapors and/or aerosols of this material will probably irritate mucous membranes, eyes, nose, and respiratory passages.
Chronic Exposure	Lower alcohols and ketones can cause central nervous system depression and gastrointestinal disturbances.

SECTION 4. FIRST AID MEASURES

Inhalation

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

Skin contact

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

Eye contact

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.

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.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties

Flash point: > 93.34 °C (> 200.01 °F)

Lower explosion limit

Method: Not applicable

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Upper explosion limit

Method: Not applicable

Extinguishing agents

Use carbon dioxide, foam, dry chemical, halogenated agents. Water spray may be used to cool containers, but a water stream may spread flames.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus with full facepiece and full protective clothing. If contact occurs with material or its solutions, immediately flush with water and remove contaminated clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear skin, eye, and respiratory protection during cleanup.

Methods for cleaning up

Contain spill.

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

SECTION 7. HANDLING AND STORAGE

Handling

Avoid breathing vapors or aerosols.

Prevent skin and eye contact.

Requirements for storage areas and containers

Store in a tightly sealed container away from incompatible materials.

Do not store at temperatures above 60°C (140°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Use permitted ventilation adequate to maintain safe levels.

Eye protection

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Wear chemical tight goggles and full faceshield.

Skin and body protection

Wear gloves, arm covers and apron determined to be impervious under the conditions of use.
Remove contaminated clothing and wash before rewearing.
Wash separately from other laundry.

Respiratory protection

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

Hygienic measures

Eyewash station and safety shower in work area.

Occupational

Components with workplace control parameters

<u>Components</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>	<u>Remarks</u>
Isopropanol				
	ACGIH	Time Weighted Average (TWA):	400 ppm 983 mg/m3	
	ACGIH	Short Term Exposure Limit (STEL):	500 ppm 1,230 mg/m3	
	NIOSH	Recommended exposure limit (REL):	400 ppm 980 mg/m3	
	NIOSH	Short Term Exposure Limit (STEL):	500 ppm 1,225 mg/m3	
	OSHA Z1	PEL:	400 ppm 980 mg/m3	
	ACGIH	Time Weighted Average (TWA):	200 ppm	
	ACGIH	Short Term Exposure Limit (STEL):	400 ppm	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : Blue
Odor : Benzaldehyde-like

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pH	:	6.5 - 8.5 (Range)
Boiling point	:	101.11 °C (214.00 °F)
Water solubility	:	(Soluble)
Specific Gravity	:	0.9600 @ 25°C

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Stable under normal conditions.
Materials to avoid	:	Strong oxidizers. Reducing agents.
Hazardous decomposition products	:	Carbon oxides. Nitrogen oxides. Hydrogen chloride/Hydrochloric acid. Amines.
Hazardous reactions	:	Not known to occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin irritation	:	Severe skin irritant based on animal studies.
Eye irritation	:	Eye corrosive based on commercially available information.
Sensitization	:	Skin: not an animal skin sensitizer based on commercially available information. Respiratory: Non-sensitizing
Repeated dose toxicity	:	Isopropyl alcohol: Adverse clinical reactions to extreme exposure to isopropyl alcohol vapors may include mucous membrane irritation, central nervous system depression, gastrointestinal disturbance, hypotension, and respiratory depression. There are reports that prolonged contact with this component can cause permanent eye injury (blindness). Quats: This product contains a quaternary ammonium compound which, when ingested, can cause immediate burning pain in the mouth and gastrointestinal tract which may progress to circulatory shock, weakness, central nervous depression, convulsions, labored breathing, cyanosis, and death.

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Carcinogenicity:

<u>Regulatory List</u>	<u>Chemical</u>	<u>Category / Classification</u>
NTP	N.D.	
IARC	N.D.	
OSHA	N.D.	

SECTION 12. ECOLOGICAL INFORMATION

Additional ecotoxicological remarks : Fish tox (LC50) N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride: 2.35 ppm 96 hr bluegill sunfish; 7.8 ppm 96 hr rainbow trout. Bobwhite quail 2700ppm 8 days; mallard duck >4500 8 days. Toxic to aquatic life.

Other : No data.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal method : Discarded product may be a hazardous waste under RCRA. TCLP should be completed prior to disposal.

Container disposal : Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container using appropriate solvents (e.g. triple rinsing). Then offer for recycling/ reconditioning or puncture or otherwise destroy empty container before disposal.

SECTION 14. TRANSPORT INFORMATION

Proper shipping name : Not regulated by US DOT

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SECTION 15. REGULATORY INFORMATION

- TSCA (TSCA Substances Control Act)** : This product is a FIFRA-regulated pesticide and is exempt from TSCA regulation. Do not use for other purposes.
- CEPA (Canadian Environmental Protection Act)** : CEPA (Canadian Environmental Protection Act): All ingredients are on the DSL (Domestic Substances List).
- SARA Title III (Emergency Planning and Community Right-To-Know Act)** : This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.
- California Proposition 65** : WARNING. This product contains a chemical known to State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

Further 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 : 0
Special :

HMIS Rating

Health : 3
Fire : 1
Reactivity : 0
* * * : Chronic Effect

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

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

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

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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.