

Material Safety Data Sheet

BAQUACIL DE/Cartridge Filter Cleaner

Version 1.0

Print Date 02/26/2005

Issue Date 09/09/2003

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material Name : BAQUACIL DE/Cartridge Filter Cleaner

Product Code :

MSDS Number : 150000020147

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		Water
7647-01-0		Hydrochloric acid
61791-26-2		POE(20) Tallow amine
5329-14-6		sulphamic acid
5069P		Inert ingredient

*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

**AMBER, VISCOUS LIQUID; STRONG PUNGENT ODOR;
CORROSIVE TO THE GASTROINTESTINAL TRACT. RESPIRATORY IRRITANT.
SKIN SENSITIZER. SKIN CORROSIVE. EYE CORROSIVE.**

Potential Health Hazards

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Eyes	This product contains a component which is eye corrosive.
Skin	This product contains a component which is corrosive to skin. A component of this product induced skin sensitization in an animal study. The product may induce skin sensitization after repeated or prolonged exposure.
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.
Chronic Exposure	Hydrochloric acid: Can induce pulmonary edema and laryngeal spasm.

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 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.

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

No Data

Lower explosion limit

Method: No Data

Upper explosion limit

Method: No Data

Extinguishing agents

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Use water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Specific hazards during fire fighting

Reacts with many metals producing flammable hydrogen gas.

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.

Environmental precautions

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.

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.

Workers should shower and change to fresh clothing after each shift.

A sensitized individual should not be exposed to the product which caused the sensitization.

Requirements for storage areas and containers

Keep container tightly sealed. Store in a cool, well ventilated area away from heat, sources of ignition, direct sunlight, and incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Engineering measures

Use permitted ventilation adequate to maintain safe levels.

Eye protection

Wear chemical tight goggles and full faceshield.

Skin and body protection

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.

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>
Hydrochloric acid				
	ACGIH	Ceiling Limit Value:	5 ppm 7.5 mg/m3	
	NIOSH	Ceiling Limit Value and Time Period (if specified):	5 ppm 7 mg/m3	
	OSHA Z1	Ceiling Limit Value:	5 ppm 7 mg/m3	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : Amber, viscous
Odor : Strong pungent
pH : < 2 (1% solution)

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Water solubility : (Miscible)

Specific Gravity : 1.02

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid high temperature or heat.

Materials to avoid : Acids.
Strong oxidizers.
Bases.
Amines.
Formaldehyde reacts with hydrochloric acid to form the potent carcinogen bis-chloromethyl ether.
Aqueous solutions will slowly corrode many metals, producing flammable hydrogen gas.

Hazardous decomposition products : Hydrogen chloride/Hydrochloric acid.
Carbon oxides, nitrogen oxides and ammonia.
Sulfur oxides.
Chlorine.

SECTION 11. TOXICOLOGICAL INFORMATION

Repeated dose toxicity : Hydrochloric acid: High vapor and aerosol concentrations can induce pulmonary edema and laryngeal spasm. Erosion of the teeth can develop following ingestion of this product.

Carcinogenicity:

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

SECTION 12. ECOLOGICAL INFORMATION

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Additional ecotoxicological remarks : Specific ecological testing has not been conducted on this product. However, based upon evaluation of the product components, the product should be considered toxic to fish and aquatic organisms.

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.

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

Proper shipping name : Hydrochloric Acid Solution
UN No. : UN 1789
Special provision :
Class : 8
Additional class :
Additional class :
Packaging Group : 2

SECTION 15. REGULATORY INFORMATION

TSCA (TSCA Substances Control Act) : All ingredients are on the TSCA Chemical Substances Inventory.

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) :

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- 313 Reportable Ingredients** : HYDROCHLORIC ACID (ACID AEROSOLS INCLUDING MISTS, VAPORS, GAS, FOG, AND OTHER AIRBORNE FORMS OF ANY PARTICLE SIZE)
- 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 : 1
Special :

HMIS Rating

Health : 3
Fire : 1
Reactivity : 1
** * :

*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.

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.