



FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE  
USA: 1-423-780-2970)  
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE  
USA: 1-703-527-3887)  
FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE  
USA: 1-423-780-2347)

PRODUCT NAME: **BAQUACIL CDX**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Arch Chemicals, Inc.</b> 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004	REVISION DATE:	05/26/2015
	SUPERCEDES:	02/23/2010
	MSDS Number:	000000023928
	SYNONYMS:	None
	CHEMICAL FAMILY:	Not Applicable/Mixture
	DESCRIPTION / USE	Swimming pool water treatment
	FORMULA:	None established

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Skin irritation : Category 2  
Serious eye damage : Category 1  
Skin sensitisation : Category 1  
Specific target organ toxicity -  
single exposure : Category 3 (Respiratory system)

### GHS Label element

Hazard pictograms : The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black border containing a black silhouette of a hand being corroded by a liquid dripping from a test tube. The second is a red diamond with a black border containing a black exclamation mark.

Signal word : Danger  
Hazard statements : H302 + H332 Harmful if swallowed or if inhaled



H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary statements

: **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 + P310 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.  
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
POLYETHER DIOL	25322-68-3	45 - 55
Water	7732-18-5	25 - 35



DBNPA

PROPRIETARY

15 - 25

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## SECTION 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

Skin Contact: IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

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## SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or explosive.

### Flammable Properties

Flash Point: Not applicable

Autoignition Temperature: No data

Fire / Explosion Hazards: Material will not ignite or burn.

Extinguishing Media: Not Applicable. - Choose extinguishing media suitable for surrounding materials.

Fire Fighting Instructions: In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Upper Flammable / Explosive Limit, % in air: No data

Lower Flammable / Explosive Limit, % in air: No data

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## SECTION 6. ACCIDENTAL RELEASE MEASURES



Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog. Contain all liquids for treatment or disposal.

Water Release: Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquids for treatment or disposal.

Land Release: Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways. Contain all liquids for treatment or disposal.

Additional Spill Information : Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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## SECTION 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Keep containers tightly closed when not in use.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."  
Do Not Store At temperatures Above: 35 °C

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Respirator Type : A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate filter. Air purifying respirators should not be used in oxygen



deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit. A NIOSH approved full-face or half-face respirator in combination with chemical goggles.

Skin Protection : Wear impervious gloves to avoid skin contact. When exposure to high concentrations are prolonged or repeated use protective boots and apron in addition to gloves. Preferred glove barrier materials include: Butyl rubber. Polyethylene. Chlorinated polyethylene. Ethyl vinyl alcohol laminate.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Impervious

General Protective Measures: An eye wash and safety shower should be provided in the immediate work area.

**Components with workplace control parameters**

Components (CAS-No.)	Value	Control parameters	Basis (Update)
POLYETHER DIOL (25322-68-3)	TWA	10 mg/m3	WEEL (2012)

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: liquid  
 Form: clear  
 Color: colorless to yellow  
 Odor: Slightly pungent  
 Molecular Weight: No data  
 pH : 3 - 4  
 Boiling Point: No data  
 Melting point/freezing point: No data  
 Density: 1.2 - 1.3

Vapor Pressure: No data  
 Vapor Density: No data  
 Viscosity: 24 - 30 CPS  
 Fat Solubility: No data  
 Solubility in Water: No data  
 Partition coefficient n-octanol/water: No data  
 Evaporation Rate: No data  
 Oxidizing: No data  
 Volatiles, % by vol.: No data  
 VOC Content

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

HAP Content: No data

**SECTION 10. STABILITY AND REACTIVITY**



Stability and Reactivity Summary: Stable under normal conditions. Product will not undergo hazardous polymerization.

Conditions to Avoid: High temperatures

Chemical Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Oxides of nitrogen, Carbon monoxide, Carbon dioxide, Hydrogen bromide

Decomposition Temperature: No data

## SECTION 11. TOXICOLOGICAL INFORMATION

### Component Animal Toxicology

#### Oral LD50 value:

POLYETHER DIOL	LD50	> 5,000 mg/kg	Rat
DBNPA	LD50	= 178 mg/kg	Rat female
	LD50	= 235 mg/kg	Rat male

### Component Animal Toxicology

#### Dermal LD50 value:

POLYETHER DIOL	LD50	> 2,000 mg/kg	Rabbit
DBNPA	LD50	> 2,000 mg/kg	Rabbit

### Component Animal Toxicology

#### Inhalation LC50 value:

POLYETHER DIOL	LC50	No data
DBNPA	LC50	4 h (aerosol dust) = 0.32 mg/l Rat
	LC50	1 h (aerosol dust) = 1.28 mg/l Rat

### Product Animal Toxicity

<u>Oral LD50 value:</u>	LD50	Believed to be approximately 800 mg/kg	Rat
<u>Dermal LD50 value:</u>	LD50	Believed to be > 2,000 mg/kg	Rabbit
<u>Inhalation LC50 value:</u>	LC50	1 h (aerosol) Believed to be approximately	6.4 mg/l Rat

Skin Irritation: This material is expected to be moderately irritating.

Eye Irritation: This material is expected to be corrosive.

Skin Sensitization: May cause allergic skin sensitization in some individuals.

POLYETHER DIOL This material tested negative for skin sensitization in animals.

DBNPA The results of a test on guinea pigs showed this substance to be a weak skin sensitizer.

Acute Toxicity: Corrosive to the eyes, moderately irritating to the skin and respiratory tract and



Subchronic / Chronic Toxicity: moderately to severely irritating to the gastrointestinal tract. Animal studies suggest that repeated ingestion of this product may result in damage to the kidneys and weight loss.

POLYETHER DIOL Not known or reported to cause subchronic or chronic toxicity.

DBNPA Animal studies suggest that repeated ingestion of this product may result in damage to the kidneys and weight loss.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity. The active ingredient in this product has been tested and fetotoxicity was observed in laboratory animals at doses that were also maternally toxic.

POLYETHER DIOL This material has been tested and was found not to cause reproductive toxicity in laboratory animals.

DBNPA This product has been tested and fetotoxicity was observed in laboratory animals at doses that were also maternally toxic.

Mutagenicity: Not known or reported to be mutagenic.

POLYETHER DIOL This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected to be a mutagenic hazard.

DBNPA This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected to be a mutagenic hazard.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

POLYETHER DIOL The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

DBNPA This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

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## SECTION 12. ECOLOGICAL INFORMATION

Overview: Toxic to aquatic life., No data for product. Individual constituents are as follows:

### Ecological Toxicity Values for: POLYETHER DIOL

Rainbow trout (*Salmo gairdneri*), - (nominal, static). 96 h LC50 > 20,000 mg/l  
Atlantic Salmon - (nominal, static). 96 h LC50 > 1,000 mg/l

### Ecological Toxicity Values for: DBNPA



Oncorhynchus mykiss (rainbow trout)	- static test 96 h LC50 = 1.0 mg/l
Lepomis macrochirus (Bluegill sunfish)	- static test 96 h LC50 = 1.3 mg/l
Pimephales promelas (fathead minnow)	- nominal 96 h LC50 = 1.8 mg/l
Cyprinodon variegatus (sheepshead minnow)	- static test 96 h LC50 = 3.4 mg/l
Daphnia magna (Water flea)	- static test 48 h EC50= 0.86 mg/l

## SECTION 13. DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.**

Waste Disposal Summary : If this product becomes a waste, it will be a nonhazardous waste.

Disposal Methods : As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : Not applicable

## SECTION 14. TRANSPORT INFORMATION

### DOT

Not dangerous goods

### TDG

UN number : 3265  
Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DBNPA)  
Class : 8  
Packing group : III  
Labels : 8

### IATA

UN number : 3265  
Description of the goods : Corrosive liquid, acidic, organic, n.o.s. (DBNPA)  
Class : 8





Packing group : III  
Labels : 8  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852  
Packing instruction (passenger aircraft) : Y841

**IMDG-CODE**

UN number : 3265  
Description of the goods : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DBNPA)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine pollutant : yes

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act



This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **US State Regulations**

#### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

#### **Pennsylvania Right To Know**

polyoxyethylene glycol 25322-68-3

#### **New Jersey Right To Know**

polyoxyethylene glycol 25322-68-3

#### **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.

#### **The components of this product are reported in the following inventories:**

TSCA : The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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## **SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: 7  
Major References : Available upon request.



**Arch  
Chemicals,  
Inc.**

## SAFETY DATA SHEET

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .