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 MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: **BAQUASPA Waterline Control**

1. PRODUCT AND COMPANY IDENTIFICATION

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

REVISION DATE: 04/28/2009
SUPERCEDES: 01/02/2002

MSDS Number: 100000002237
SYNONYMS: None
CHEMICAL FAMILY: Not Applicable/Mixture
DESCRIPTION / USE: Treatment of spa water
FORMULA: NOT APPLICABLE/MIXTURE

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	**This product is not considered to be hazardous under OSHA 29 CFR 1910.1200.**

Routes of Entry: This product will not exert a significant adverse effect to health from any route of exposure.
Chemical Interactions: No known or reported interactions.
Medical Conditions Aggravated: None known or reported

Human Threshold Response Data

Odor Threshold Not established for product.

ISOPROPYL ALCOHOL 22 ppm

Irritation Threshold Not established for product.

ISOPROPYL ALCOHOL Approximately 400 ppm

Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings :	Health	Flammability	Physical / Instability	PPI / Special hazard.
HMIS	0	1	0	
NFPA	0	1	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:	Not expected to be irritating. Not expected to be toxic by inhalation.
Skin Toxicity:	Contact would be expected to cause transient redness if not washed off and left on the skin for an extended period of time. Not considered to be a primary skin irritant. Not expected to be absorbed through the skin. Not expected to be toxic from dermal contact.
Eye Toxicity:	Contact would be expected to cause transient redness if not washed out and left in the eye for an extended period of time. No corneal involvement or visual impairment is expected. Not considered to be a primary eye irritant.
Ingestion Toxicity:	Not expected to be toxic by ingestion. Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea.
Acute Target Organ Toxicity:	There are no known or reported target organ effects from acute exposure.

Prolonged (Chronic) Health Effects

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
Reproductive and Developmental Toxicity:	No reproductive or developmental risk to humans is expected from exposure to this product.
Inhalation:	There are no known or reported effects from chronic exposure.
Skin Contact:	There are no known or reported effects from chronic exposure.
Skin Absorption:	There are no known or reported effects from chronic exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Chronic Target Organ Toxicity:	There are no known or reported target organ effects from chronic exposure.
Supplemental Health Hazard Information :	No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS #	% RANGE
Water	7732-18-5	

PROPYLENE GLYCOL	57-55-6
Bis(hydrogenated tallow)dimethylammonium chloride	61789-80-8
ISOPROPYL ALCOHOL	67-63-0
Amines, bis(hydrogenated tallow alkyl)methyl	61788-63-4

4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): Combustible above 93 deg. C / 200 deg. F.

Flammable Properties

Flash Point:	> 93 DEG°C / 200 DEG°F
Autoignition Temperature:	No data
Fire / Explosion Hazards:	Material may be ignited only if preheated to high temperatures, for example in a fire.
Extinguishing Media:	Use dry chemical, water fog, carbon dioxide (CO2), or foam.
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:	Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrogen chloride, Hydrogen cyanide, Ammonia

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

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:	Use the personal protective equipment recommended in Section 8 and a NIOSH approved 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. Avoid runoff into storm sewers and ditches which lead to waterways. Contain all liquids for treatment or disposal.
Additional Spill Information :	Remove all sources of ignition. 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.

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 ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid direct exposure to sunlight.
Incompatible Materials for Storage:	Refer to Section 10, "Incompatible Materials."
Empty Container Warning:	Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

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

	P95 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.
Skin Protection :	Wear impervious gloves to avoid skin contact.
Eye Protection:	Use safety glasses with side shields.
Protective Clothing Type:	Impervious, Neoprene, Nitrile, Butyl rubber, VitonTM
General Protective Measures:	Emergency eyewash should be provided in the immediate work area.

Exposure Limit Data

CHEMICAL NAME	CAS #	Name of Limit	Exposure
PROPYLENE GLYCOL	57-55-6	WEEL	10 mg/m3 TWA Aerosol.
ISOPROPYL ALCOHOL	67-63-0	ZUS_ACGIH	200 ppm TWA Refers to Appendix A -- Carcinogens., ACGIH 2003 Adoption
ISOPROPYL ALCOHOL	67-63-0	ZUS_ACGIH	400 ppm STEL ACGIH 2003 Adoption, Refers to Appendix A -- Carcinogens.
ISOPROPYL ALCOHOL	67-63-0	ZUS_OSHAPO	400 ppm TWA 980 mg/m3 TWA
ISOPROPYL ALCOHOL	67-63-0	ZUS_OSHAPO	500 ppm STEL 1,225 mg/m3 STEL
ISOPROPYL ALCOHOL	67-63-0	ZUS_OSHAP1	400 ppm TWA 980 mg/m3 TWA
ISOPROPYL ALCOHOL	67-63-0	NIOSH-IDLH	2,000 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	liquid
Color:	Opaque, white
Odor:	Slightly sweet aroma
Molecular Weight:	Not applicable/Mixture
Specific Gravity :	0.97
pH :	7.5
Boiling Point:	No data
Freezing Point:	No data
Melting Point:	No data
Density:	No data
Vapor Pressure:	No data
Vapor Density:	No data
Viscosity:	No data

Fat Solubility:	No data
Solubility in Water:	15 g/L at 20°C (68°F)
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	No data
Volatiles, % by vol.:	No data
VOC Content	No data
HAP Content	No data

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures.
Chemical Incompatibility:	Strong oxidizing agents, Strong acids and strong bases, Reducing agents
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Hydrogen chloride, Hydrogen cyanide, Ammonia
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

PROPYLENE GLYCOL	LD50	>	5,000 mg/kg	Rat
Bis(hydrogenated tallow)dimethylammonium chloride	LD50	>	9,850 mg/kg	rat
ISOPROPYL ALCOHOL	LD50	=	5,045 mg/kg	Rat

Dermal LD50 value:

PROPYLENE GLYCOL	LD50	>	2,000 mg/kg	Rabbit
Bis(hydrogenated tallow)dimethylammonium chloride	no data available			
ISOPROPYL ALCOHOL	LD50	=	13,000 mg/kg	Rabbit

Inhalation LC50 value:

PROPYLENE GLYCOL	No data
Bis(hydrogenated tallow)dimethylammonium chloride	no data available
ISOPROPYL ALCOHOL	Inhalation LC50 8 h = 16,000 ppm Rat

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be > 5,000 mg/kg rat

Dermal LD50 value:	LD50 Believed to be > 2,000 mg/kg rabbit
Inhalation LC50 value:	LC50 no data available
Skin Irritation:	Contact would be expected to cause transient redness if not washed off and left on the skin for an extended period of time., Not considered to be a primary skin irritant.
Eye Irritation:	Contact would be expected to cause transient redness if not washed out and left in the eye for an extended period of time., Not considered to be a primary eye irritant.
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.

Surfactant

Acute Toxicity:	There are no known or reported target organ effects from acute exposure.
Subchronic / Chronic Toxicity:	Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity: No reproductive or developmental risk to humans is expected from exposure to this product.

PROPYLENE GLYCOL	This chemical has been tested in laboratory animals and no evidence of teratogenicity, embryotoxicity or fetotoxicity was seen.
ISOPROPYL ALCOHOL	This material at concentrations above the occupational exposure limits has caused developmental effects in animals. However, these effects were observed only at those doses that resulted in maternal toxicity.

Mutagenicity: Not known or reported to be mutagenic.

PROPYLENE GLYCOL	This product has been shown to be non-mutagenic based on a battery of assays.
ISOPROPYL ALCOHOL	This material has been shown not to be mutagenic based on a battery of assays.

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

PROPYLENE GLYCOL	The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.
ISOPROPYL ALCOHOL	The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.

12. ECOLOGICAL INFORMATION

Overview: Practically non- toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: **PROPYLENE GLYCOL**

Rainbow trout (Salmo gairdneri),	-	(nominal, static). 24 h LC50 > 50,000 mg/l
Goldfish	-	(measured, static) 24 h LC50 > 5,000 mg/l
Fathead minnow (Pimephales promelas),	-	nominal 96 h LC50 > 62,000 mg/l
Brine shrimp	-	(nominal, static). 24 h LC50> 10,000 mg/l
Daphnia magna,	-	(nominal, static). 48 h EC50> 10,000 mg/l

Ecological Toxicity Values for: **ISOPROPYL ALCOHOL**

Bluegill	-	(nominal, static). 96 h LC50 > 1,400 mg/l
Fathead minnow (Pimephales promelas),	-	(measured, flow-through) 96 h LC50 10,400 mg/l
Mosquito fish	-	(nominal, static). 96 h LC50 > 1,400 mg/l
Daphnia magna,	-	(nominal, static). 24 h EC50 9,714 mg/l
Common shrimp (Crangon crangon)	-	(nominal, renewal). 48 h LC50 1,400 mg/l

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 according to U.S. RCRA regulations. Dispose of in accordance with all Local, State, Federal, and Provincial Environmental Regulations.

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

14. TRANSPORT INFORMATION

Land (US DOT): Not Regulated NOT REGULATED AS A DOT HAZARDOUS MATERIAL
Water (IMDG): NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point: 93.33 DEG°C >
Air (IATA): NOT REGULATED AS A HAZARDOUS MATERIAL,
Emergency Response Guide Number: Not applicable

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	None
Physical	None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	None established
ZUS_SAR302	Reportable quantity	None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313	De minimis concentration	Isopropyl alcohol (Manufacturing-strong acid process, no supplier notification) Value: 1%

Clean Air Act Toxic ARP Section 112r:

CAA 112R	None established

Clean Air Act Socmi:

HON SOC	None established

Clean Air Act VOC Section 111:

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)
01 1996
ISOPROPYL ALCOHOL

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP	None established

ZUS_CAAHRP	None established
CAA AP	None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
57-55-6	PROPYLENE GLYCOL
67-63-0	2-PROPANOL

ZUSPA_RTK

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323
1990-01-01
1,2-PROPANEDIOL
hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323
1990-01-01
2-PROPANOL
environmental hazard, hazardous substance

New Jersey:

CAS #	COMPONENT NAME
67-63-0	2-PROPANOL

ZUSNJ_RTK

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
ISOPROPYL ALCOHOL (manufacture-strong acid process)
hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
ISOPROPYL ALCOHOL
special health hazard substance, special health hazard, flammable - third degree

Massachusetts:

CAS #	COMPONENT NAME
67-63-0	2-PROPANOL

ZUSMA_RTK

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000
1991-07-01

ISOPROPYL ALCOHOL
massachusetts hazardous substance

California Proposition 65:

CAS #	COMPONENT NAME
ZUSCA_P65	None established

WHMIS Hazard Classification:

Canada. Canada Hazardous Products Act SOR/88-64
1988-01-20
Concentration by Weight: 1 percent by weight
1364
1,2-PROPYLENE GLYCOL

Canada. Canada Hazardous Products Act SOR/88-64
1988-01-20
Concentration by Weight: 1 percent by weight
900
ISOPROPANOL

16. OTHER INFORMATION

MSDS REVISION STATUS :	Revised to meet the ANSI standard of 16 sections
SECTIONS REVISED:	First formulated version in SAP.
Major References :	Available upon request.