

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: FOR ALL MSDS QUESTIONS & REQUESTS, CALL: 1-800-654-6911 1-800-424-9300 1-800-511-MSDS

12/13/2006

03/10/2006

PRODUCT NAME: BAQUACIL pH Decreaser

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204 REVISION DATE: SUPERCEDES: MSDS Number: SYNONYMS: CHEMICAL FAMILY: DESCRIPTION / USE:

FORMULA:

00000002193 Dry acid Sulfate pH and alkalinity adjuster for swimming pools NaHSO4

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	Corrosive to eyes and irritating to respiratory tract and gastrointestinal tract., Moderate Skin Irritant	
Routes of Entry: Chemical Interactions: Medical Conditions Ag		

Human Threshold Response Data

Odor Threshold Not established.

Irritation Threshold Not established.

Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings :	Health	Flammability	Physical / Instability	<u>PPI / Special</u> hazard.
HMIS NFPA	3 Not established	0	0	<u></u>

Immediate (Acute) Health Effects

Inhalation Toxicity:	May cause respiratory irritation.
Skin Toxicity:	Moderate Skin Irritant
Eye Toxicity:	Corrosive to eyes.

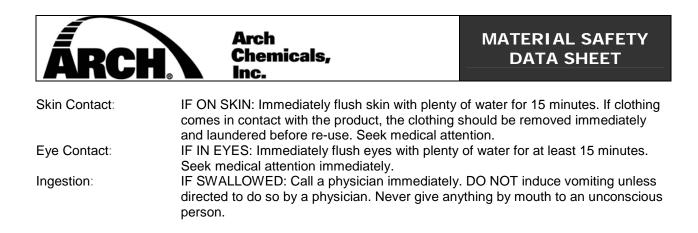
ÁRCH.	Arch Chemicals, Inc.	MATERIAL SAFETY DATA SHEET
Ingestion Toxicity:	Irritation and/or burns can occur to the including the stomach and intestines, or diarrhea, abdominal pain, bleeding, an may cause severe damage to the gast to cause perforation.	characterized by nausea, vomiting, nd/or tissue ulceration. Ingestion
Acute Target Organ Toxicity:	Eyes, Skin, Digestive Tract, Lungs	
Prolonged (Chronic) Health Effe	<u>cts</u>	
Carcinogenicity:	This product is not known or reported reference source including IARC, OSH	
Reproductive and Developmental Toxicity:	Not known or reported to cause reproc	
Inhalation:	There are no known or reported effect effects similar to those experienced fro	
Skin Contact:	There are no known or reported effects effects (if any) similar to those experie	s from chronic exposure except for
Skin Absorption:	There are no known or reported effect	s from chronic exposure.
Ingestion:	There are no known or reported effects effects similar to those experienced fro corrosivity of this product, makes chro amounts unlikely.	om single exposure. The acute
Sensitization:	This material is not known or reported sensitizer.	to be a skin or respiratory
Chronic Target Organ Toxicity:	There are no known or reported target exposure.	organ effects from chronic
Supplemental Health Hazard Information :	No additional health information availa	ble.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	<u>CAS #</u>	<u>% RANGE</u>
SULFURIC ACID, MONOSODIUM SALT	7681-38-1	91.5 - 94.7
SULFURIC ACID DISODIUM SALT	7757-82-6	4.8 - 8.0
Water	7732-18-5	0.1 - 0.5

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.



5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA):	Product is not known to be flammable, combustible, pyrophoric or explosive.	
Flammable Properties		
Flash Point:	Not applicable	
Autoignition Temperature:	Not applicable	
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 person protective equipment recommended in Section 8 to include a Na approved self-contained breathing apparatus.		
Hazardous Combustion Products: Carbon monoxide, Carbon dioxide Upper Flammable / Explosive Limit, % in air: Not applicable Lower Flammable / Explosive Limit, % in air: Not applicable		

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.
Water Release:	Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all solids for treatment or disposal.
Land Release:	Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not place spill materials back in their original containers.
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.



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 dust from this material.
Storage:	Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid contact with water, or moist air.

Incompatible Materials for Storage: strong alkalies Do Not Store At temperatures Above:

175 °C / 347 °F

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Local exhaust ventilation is recommended if vapors, mists, aerosols or dusts
	are generated. Otherwise, use general exhaust ventilation.

Protective Equipment for Routine Use of Product

Respiratory Protection :	If vapors, mists or ae respirator.	rosols are generated, we	ar a NIOSH approved
Respirator Type : Skin Protection :	Wear a NIOSH appro Wear impervious glov	oved N95 respirator. ves to avoid skin contact.	
Eye Protection:	Use chemical goggle		e wash and safety shower
Protective Clothing Type:	Butyl rubber		
Exposure Limit Data			
CHEMICAL NAME	CAS #	Name of Limit	Exposure

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Form	solid granular
Color:	off-white
Odor:	pungent
Molecular Weight:	120.00
Specific Gravity :	2.7400
рН :	< 1.0 @ 5% aqueous solution
Boiling Point:	Not applicable
Freezing Point:	Not applicable
Melting Point:	177 °C / 350 °F
Density:	No data.
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Viscosity:	No data
Fat Solubility:	No data
Solubility in Water:	1080.00000 gm/l 68.00 °F

No Data Found



Partition coefficient noctanol/water: Evaporation Rate: Oxidizing: Volatiles, % by vol.: VOC Content HAP Content Not applicable

Not applicable No data Not applicable Not applicable Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization.
Conditions to Avoid:	Sparks, open flame, other ignition sources, and elevated temperatures.
Chemical Incompatibility:	acids, Bases, oxidizers
Hazardous Decomposition Products:	Sulfur oxides
Decomposition Temperature:	315 °C - ,599 °F-

11. TOXICOLOGICAL INFORMATION

Component Animal Tox	<u>kicology</u>
<u>Oral LD50 value:</u> SULFURIC ACID, MONOSODIUM SALT	LD50 Believed to be 2,800 mg/kg Rat
SULFURIC ACID DISODIUM SALT	LD50 = 5,989 mg/kg Mouse
<u>Dermal LD50 value</u> : SULFURIC ACID,	No data
MONOSODIUM SALT SULFURIC ACID DISODIUM SALT	No data
Inhalation LC50 value: SULFURIC ACID,	No data
MONOSODIUM SALT SULFURIC ACID DISODIUM SALT	No data
Product Animal Toxicity	<u>/</u>
<u>Oral LD50 value</u> : <u>Dermal LD50 value</u> :	LD50 Believed to be > 3,000 mg/kg Rat LD50 Believed to be > 2,000 mg/kg Rabbit
Inhalation LC50 value:	No data Moderate Skin Irritant
Skin Irritation: Eye Irritation:	Corrosive to eyes.
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.
Acute Toxicity:	Corrosive to eyes and irritating to respiratory tract and gastrointestinal tract.possible skin irritant
Subchronic / Chronic Toxicity:	Not known or reported to cause subchronic or chronic toxicity.



Reproductive and Developmental Toxicity:	This chemical is not known or reported to affect reproductive function or fetal development.
Mutagenicity:	Not known or reported to be mutagenic.
Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

12. ECOLOGICAL INFORMATION

Overview:

Toxic to fish and other aquatic organisms.

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 DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.
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 AS A DOT HAZARDOUS MATERIAL NOT REGULATED AS A HAZARDOUS MATERIAL,

Flash Point:Not applicableAir (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	Not registered in the US under FIFRA.
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(40 CFR 180):

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2): Health Immediate (Acute) Health Hazard Physical None

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

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:SARA IIIThreshold Planning Quantity:None established			
Reportable Quanti CERCLA SARA III	ty (49 CFR 172.101, Appendix): Reportable quantity:	None established None established	
Supplier Notification	on Requirements (40 CFR 372.4	5), 313 Reportable Components	
SARA III	De minimis concentration:	None established	
Clean Air Act Toxic ARP Section 112r: CAA 112R None established			
Clean Air Act Socr HON SOC	ni : None established		
Clean Air Act VOC Section 111: CAA 111 None established			
Clean Air Act Haz. Air Pollutants Section 112: CAA None established			
CAA 112I	None established		
CAA AP	None established		

State Right-to-Know Regulations Status of Ingredients Pennsylvania:

CAS #	COMPONENT NAME	
7757-82-6	SULFURIC ACID DISODIUM SALT	

PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989

Hazard Designation: SODIUM SULFATE, SOLUTION

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989 SODIUM SULFATE, SOLUTION



New Jersey:

CAS #	COMPONENT NAME	
NJ RTK	None established	

Massachusetts:

CAS #	COMPONENT NAME	
7757-82-6	SULFURIC ACID DISODIUM SALT	

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK 04 1993 SODIUM SULFATE, SOLUTION

California Proposition 65:

CAS #	COMPONENT NAME	
US CA CRT	None established	

US CA65CRT None established

WHMIS Hazard Classification:

WHMIS

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)

WHMIS 01 1988 Threshold limits: 1% English List no. 1426 SODIUM BISULFATE

16. OTHER INFORMATION

MSDS REVISION STATUS : SECTIONS REVISED: Major References : Revised to meet the ANSI standard of 16 sections

Available upon request.

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.



Arch Chemicals, Inc.