

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: POOLIFE® PH MINUS

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway

Alpharetta, GA 30004

REVISION DATE: 05/27/2015 SUPERCEDES: 12/07/2009

MSDS Number: 000000022981 SYNONYMS: Dry acid CHEMICAL FAMILY: Sulfate

pools

FORMULA: NaHSO4

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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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

P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Storage:

P402 + P404 Store in a dry place. Store in a closed container. P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

SULFURIC ACID DISODIUM SALT 7757-82-6 4.8 - 8.0

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: 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 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:

Lower Flammable / Explosive Limit,

% in air:

Not applicable

Not applicable

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.

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 nonessential 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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if significant dusting occurs.

Otherwise use general exhaust ventilation.

Protective Equipment for Routine Use of Product

Respiratory Protection: If dusting occurs, wear a NIOSH approved respirator.

Respirator Type: NIOSH approved full-face air purifying respirator with an N95 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 chemical goggles. Protective Clothing Type: Butyl rubber, Neoprene

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area.

Components with workplace control parameters

no data available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Form granular
Color: off-white
Odor: pungent
Molecular Weight: 120.00 g/mol

pH: < 1.0 @ 5% aqueous solution

Boiling Point: decomposes

351 °F (177 °C)

Density:

No data.

Vapor Pressure: Not applicable

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Vapor Density: Not applicable

Viscosity: No data Fat Solubility: No data

Solubility in Water: 1080.00000 gm/l 68.00 °F

Partition coefficient n-

octanol/water:

Not applicable

Evaporation Rate: Not applicable

Oxidizing: No data
Volatiles, % by vol.: Not applicable
VOC Content Not applicable
HAP Content Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions. Not sensitive to mechanical

shock. Not sensitive to static discharge. Will react in water to form a weak solution of sulfuric acid. 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: Sulfur oxides $315 \, ^{\circ}\text{C}$ - ,

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

SULFURIC ACID, LD50 Believed to be 2,800 mg/kg Rat

MONOSODIUM SALT

SULFURIC ACID LD50 = 5,989 mg/kg Mouse

DISODIUM SALT

LD50 Believed to be > 10,000 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

SULFURIC ACID, No data

MONOSODIUM SALT

SULFURIC ACID no data available

DISODIUM SALT

Component Animal Toxicology

Inhalation LC50 value:

SULFURIC ACID, No data

MONOSODIUM SALT

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SULFURIC ACID DISODIUM SALT no data available

Product Animal Toxicity

<u>Oral LD50 value</u>: LD50 Believed to be > 3,000 mg/kg Rat <u>Dermal LD50 value</u>: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50

Skin Irritation:

value:

No data

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL

CAUSES SKIN BURNS.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract. The dry material is irritating to

the skin. However when wet, it will produce burns to the skin.

Subchronic / Chronic

Toxicity:

Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Not known or reported to cause reproductive or developmental toxicity.

Developmental Toxicity:

Mutagenicity: Not known or reported to be mutagenic.

SULFURIC ACID DISODIUM SALT This product was determined to be non-mutagenic in

the Ames assay., This product has been shown to be negative for cell transformation in the Syrian hamster

embryo (SA7/SHE) cell assay.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

SECTION 12. ECOLOGICAL INFORMATION

Overview: Slightly toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: SULFURIC ACID DISODIUM SALT

Lepomis macrochirus (Bluegill - 96 h LC50 = 12,750 mg/l

sunfish)

Pimephales promelas (fathead - 96 h LC50 = 7,960 mg/l

minnow)

Gambusia affinis (Mosquito fish) - 96 h LC50 = 3,710 mg/l
Daphnia magna (Water flea) - 48 h LC50= 2,564 mg/l

Ceriodaphnia dubia - 48 h LC50= 3,080 mg/l

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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 solid 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

Not dangerous goods

IATA

Not dangerous goods

IMDG-CODE

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

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

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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.

US State Regulations

Massachusetts Right To Know

Sodium sulphate 7757-82-6

Pennsylvania Right To Know

Sodium hydrogensulphate 7681-38-1 Sodium sulphate 7757-82-6

New Jersey Right To Know

Sodium hydrogensulphate 7681-38-1 Sodium sulphate 7757-82-6

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)

SECTION 16. OTHER INFORMATION

SECTIONS REVISED:

Major References: 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.

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