



Safety Data Sheet (SDS)

Baychem, Inc.

Pondax

SDS Number: 515

Revision Date: 1/31/2016

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Baychem, Inc.
805 Veterans Blvd.
Ste. 230
Redwood City, CA 94064

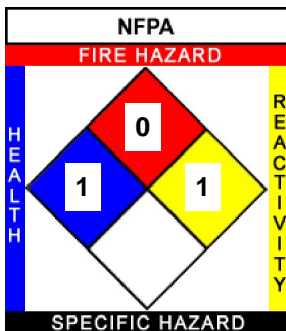
Contact: Baychem, Inc.
Phone: +1-650-369-5102
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Web: www.baychem.com

Product Name: Pondax
Revision Date: 1/31/2016
Version: 1.00
SDS Number: 515
Common Name: Inorganic Salts
CAS Number: MIXTURE
Chemical Family: Inorganic Salt Solution
Chemical Formula: *** PROPRIETARY ***
Synonyms: None
Emergency Phone: +1-800-424-9300 (CHEMTREC, 24 Hours, Acct. #794844)

2 HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 1, Fire = 0, Reactivity = 1
H1/F0/PH1



| HMIS III | |
|---|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARDS | 1 |
| PERSONAL PROTECTION F Safety Glasses, Gloves, Apron, Dust Respirator | |

| PERSONAL PROTECTION INDEX | | | |
|---------------------------|--|------------------------|---|
| A | | G | |
| B | | H | |
| C | | I | |
| D | | J | |
| E | | K | |
| F | | X | Consult your supervisor or S.O.P. for "SPECIAL" handling directions |
| A | | n | |
| O | | p | |
| q | | r | |
| s | | Additional information | |
| t | | u | |
| w | | y | |
| z | | | |



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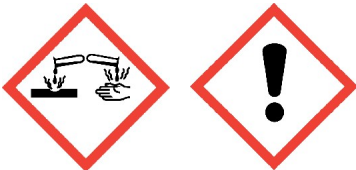
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GHS Signal Word:

DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 4 Dermal
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Acute toxicity, 4 Inhalation
- Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Phrases:

- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H318 - Causes serious eye damage
- H332 - Harmful if inhaled
- H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- 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.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P285 - In case of inadequate ventilation wear respiratory protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P321 - Specific treatment (see supplemental first aid instructions on this label).
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P370+378 - In case of fire: Use water spray, water fog, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
- P402 - Store in a dry place.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
- P501 - Dispose of contents/container to an approved waste disposal plant.



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3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

| Cas # | Percentage | Chemical Name |
|-----------|------------|---|
| 7681-38-1 | 40-60% | Sulfuric acid, monosodium salt |
| N/A | 30-55% | Proprietary, non-hazardous, non-regulated |
| 7631-99-4 | 5-10% | Sodium nitrate |

4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Wipe/brush off as much chemical as possible from skin BEFORE flushing skin with water (water will react exothermically with large amounts of residual dry chemical, potentially causing more severe burns). Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- Ingestion:** Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11. The primary hazard of this product is the corrosivity on the eyes. Direct eye contact is likely to cause corneal damage, especially if not washed immediately after exposure. Careful ophthalmologic evaluation is recommended. The possibility of local corticosteroid therapy should be considered. If this product is ingested, it may be advisable to insert a nasogastric or orogastric tube to relieve or prevent increased pressure that may result from the rapid evolution of Oxygen gas upon decomposition. Because of the likely corrosive effects on the gastrointestinal tract after ingestion, evacuating stomach contents via emesis or gastric lavage should be avoided. Delayed pulmonary edema can occur several hours after exposure.

Indication of any immediate medical attention and special treatment needed:

No data available.

5 FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** DNA
- Flash Point Method:** DNA
- Burning Rate:** No data available
- Autoignition Temp:** Not determined
- LEL:** DNA
- UEL:** DNA

Extinguishing Media:

Water Spray
Water Fog
Carbon Dioxide



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Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Hydrofluoric acid gas
Iron Oxides
Nitrogen Oxides (NO_x)
Silicon Oxides
Sodium Oxides
Sulfur Oxides

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.
This product contains Sodium Nitrate, which is an oxidizer. Sodium Nitrate will release Oxygen gas upon thermal decomposition, which will intensify fires. Use extreme caution.
Use water spray to cool unopened containers.
If containers begin to blacken and violently vent, immediately evacuate the area.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment, including dust respirator.
Avoid dust formation.
Avoid breathing dust.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

Environmental precautions:

Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and materials for containments and cleaning up:

Pick up and arrange disposal without creating dust.
Sweep up, shovel or collect spillage with an electrically protected vacuum cleaner.
Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

Reference to Other Sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.



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7 HANDLING AND STORAGE

Handling Precautions:

Avoid formation of dust or aerosols.
Avoid breathing vapors, mist or dust.
Avoid contact with eyes, skin, or clothing.
Use approved, plastic containers only - do not store in metal containers.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Do not use corrosive-sensitive materials for handling product.
Wash thoroughly after handling.
Ensure adequate ventilation.
DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR THIS CONTAINER.

Storage Requirements:

Do not store at temperatures exceeding 50 °C/120 °F.
Keep away from heat, sparks and flames.
Do not store in direct sunlight.
Store away from strong acids, strong bases, strong reducing agents, strong oxidizing agents, organic materials, powdered metals, water, Alkali metals, Alkaline Earth metals, cyanides, thiocyanates and amines.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/face protection:

When using material use safety glasses, gloves, apron and dust respirator according to HMIS PP, F. Use of a vapor respirator according to HMIS PP, U is highly recommended when using material in solution form in poorly ventilated spaces. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:

Handle with gloves made from PVC, neoprene, nitrile or fluorinated-rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:

Chemically resistant gloves, safety glasses and apron are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:

Use of a dust respirator is required when handling material in dry, powdered form. Use of a vapor respirator is recommended when using material in solution form in poorly ventilated spaces. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.



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Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limit values.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|---------------------------------------|------------------------------|---------------------------|
| Appearance: | Off-White to Reddish-Brown Powder | Odor: | Bland |
| Physical State: | Solid | Molecular Formula: | MIXTURE |
| Odor Threshold: | Not determined | Solubility: | 100% |
| Particle Size: | No data available | Softening Point: | Not determined |
| Spec Grav./Density: | DNA | Percent Volatile: | DNA |
| Viscosity: | Not determined | Heat Value: | Not determined |
| Sat. Vap. Conc.: | Not determined | Freezing/Melting Pt.: | Not determined |
| Boiling Point: | Not determined | Flash Point: | DNA |
| Flammability: | (solid, gas): Not flammable | Octanol: | Not determined |
| Partition Coefficient: | Not determined | Vapor Density: | (air = 1): Not determined |
| Vapor Pressure: | (mm Hg @ 20 °C): Not determined | VOC: | DNA |
| pH: | @ 100%: Not determined | Bulk Density: | 58 ppcf |
| Evap. Rate: | (N-Butyl Acetate = 1): Not determined | Auto-Ignition Temp: | Not determined |
| Molecular weight: | MIXTURE | UFL/LFL: | Not determined |
| Decomp Temp: | Not determined | | |

10 STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability: | Product is stable under normal conditions. |
| Conditions to Avoid: | Incompatibilities, flames, ignition sources. |
| Materials to Avoid: | Strong acids, strong bases, strong reducing agents, strong oxidizing agents, organic materials, powdered metals, water, Alkali metals, Alkaline Earth metals, cyanides, thiocyanates and amines. |
| Hazardous Decomposition: | Hydrofluoric acid gas, Iron Oxides, Nitrogen Oxides (NOx), Silicon Oxides, Sodium Oxides and Sulfur Oxides. |
| Hazardous Polymerization: | Will not occur. |

11 TOXICOLOGICAL INFORMATION

Component(s): Sulfuric acid, monosodium salt; Sodium Nitrate
CAS No(s): 7681-38-1; 7631-99-4

Acute Toxicity:

LD50 Oral - Rat: 3,430 mg/kg
LD50 Dermal - Rat: > 5,000 mg/kg
LD50 Intravenous - Mouse: 175 mg/kg



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LC50 Inhalation - Rat: 217 mg/m³ (4 h)

Skin Corrosion/Irritation: Rabbit skin - No skin irritation.

Serious Eye Damage/Eye Irritation: Rabbit eyes - Risk of serious damage to eyes.

Respiratory or Skin Sensitation: Mouse skin - Did not cause skin sensitisation.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

Carcinogenicity Oral - Rat: Tumorigenic (Equivocal tumorigenic agent by RTECS criteria; Liver tumors; Skin and Appendages; Testicular tumors).

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity:

Reproductive Toxicity Oral - Mouse: Paternal effects (Spermatogenesis including genetic material sperm morphology, motility and count).

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information:

Component: Sulfuric acid, monosodium salt; RTECS: VZ1860000

Component: Sodium Nitrate; RTECS: WC5600000

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ECOLOGICAL INFORMATION

Component(s): Sulfuric acid, monosodium salt; Sodium Nitrate

CAS No(s): 7681-38-1; 7631-99-4

Toxicity:

Toxicity to fish:

LC50 - Gambusia affinis (Mosquito Fish): 6,650 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water Flea): 6,000 mg/l (48 h)

Persistence and Degradability:

No data available.



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Bioaccumulative potential:

No data available.

Mobility in Soil:

No data available.

Results of PBT and vPvB assessment:

Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

13

DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION**DOT (US)**

Non-regulated material, solid

IMDG

Non-regulated material, solid

IATA

Non-regulated material, solid

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REGULATORY INFORMATION**COMPONENT / (CAS/PERC) / CODES**

*Sulfuric acid, monosodium salt (7681381 40-60%) NJHS, PA, SARA311/312, TSCA

*Sodium nitrate (7631994 5-10%) MASS, NJHS, PA, SARA311/312, SARA313, TSCA

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
SARA313 = SARA 313 Title III Chemicals
TSCA = Toxic Substances Control Act



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OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Baychem, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Baychem, Inc.'s control, Baychem, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

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