





# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: BORIC ACID TAB FLOATER  
 Synonym(s): Orthoboric Acid, Winterizing Floater  
 Recommended Uses: Improves swimming pool water quality and filtration  
 SDS Reference: 15

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
 6010 NW FIRST PLACE 320 INDUSTRIAL DR  
 GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
 Tel: 352-378-9696  
 24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: REPRODUCTIVE TOXIN INHALATION HAZARD  

Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:  
 Reproductive Toxin - May damage fertility or the unborn child (based on animal chronic toxicity) - Category 1 - H360  
 Inhalation Toxicity - Harmful if inhaled - Category 4  
 ENVIRONMENTAL HAZARDS: Care should be taken to minimize the amount of product released to the environment to avoid ecological effects.

Precautionary Statements: Suspected of damaging the unborn child (based on animal chronic toxicity). Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse. If exposed or concerned, obtain medical attention. Store locked up and dispose of contents/container to comply with local, state and federal regulations.

Eye Contact: Non-irritating.  
 Skin Contact: Does not cause irritation to intact skin.  
 Inhalation: May cause mild irritation to nose and throat if inhaled.  
 Ingestion: Call a physician if you feel unwell.

## 3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
Boric Acid	100	10043-35-3

## 4. FIRST AID

If In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice if irritation persists.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice if irritation persists.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for treatment advice.

If Swallowed: Call a physician or poison control center. Do not induce vomiting.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Any fire extinguishing media may be used on nearby fires.

Specific Hazards from Chemical: None. This product is not flammable, combustible or explosive. This product itself is a flame retardant.

Special Protective Equipment: No data available.

Other Information: No data available



# SAFETY DATA SHEET

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation and avoid dust formation. Do not get in eyes, on skin or clothing.

Methods and Materials for cleanup: Product should not be released into the environment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## 7. HANDLING AND STORAGE

Handling: Good housekeeping procedures should be followed to minimize dust generation and accumulation. Wash hands thoroughly with soap and water after handling, and before eating, drinking, or smoking.

Storage: Store in a cool, dry place in original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Boric Acid is listed by OSHA, CAL OSHA and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust".  
OSHA: PEL 15 mg/m<sup>3</sup> total dust and 5 mg/m<sup>3</sup> respirable dust  
ACGIH: TWA 2 mg/m<sup>3</sup> ; STEL 6 mg/m<sup>3</sup>

Appropriate Engineering Controls: Use local exhaust ventilation to keep airborne concentrations of boric acid dust below permissible exposure levels.

Individual Protection Measures: In case of prolonged exposure to dust wear a personal respirator in compliance with national legislation.  
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
Skin: Wear appropriate protective gloves to prevent skin exposure.  
Clothing: Wear appropriate protective clothing to prevent skin exposure.  
Respirators: A respiratory protection program that meets OSHA's 29 CFR §1910.134 must be followed whenever workplace conditions warrant a respirator's use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Tablet	Flammability (solid/gas): Not Flammable
Odor: Odorless	Upper/lower Flammability or Exposure limits: Not Applicable
Odor Threshold: No data available	Vapor Pressure: No data available
pH: 4.8 (2% solution @ 20°C)	Vapor Density: No data available
Melting Point/Freezing Point: 169°C	Density: 57 - 65 lbs/ft <sup>3</sup>
Initial Boiling Point/Boiling Range: No data available	Solubility(ies): Soluble in water
Flash Point: Not Flammable	Partition Coefficient: n-octanol/water: No data available
Evaporation Rate: No data available	Auto-ignition Temperature: Not Applicable
	Decomposition Temperature: No data available
	Viscosity: No data available

## 10. STABILITY AND REACTIVITY

Stability/Reactivity: This product is stable under normal conditions.

Possibilities of Hazardous Reactions: Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Incompatible materials, dust generation and heat.

Incompatible Materials: Reacts as a weak acid which may cause corrosion of base metals. Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.

Hazardous Decomposition Materials: No data available.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Toxicity:  
Boric Acid:  
Low Acute Oral LD50 (rat): 3500 - 4100 mg/kg body weight  
Low Acute Dermal LD50 (rabbit): >2000 mg/kg



# SAFETY DATA SHEET

	Acute Inhalation LC50 (rat): >2.03 mg/l (4hr)
Chronic Toxicity:	No data available.
Reproductive Toxicity:	A human study of occupationally exposed Borate worker population showed no adverse reproductive effects. Animal studies indicate that Boric Acid reduces or inhibits sperm production, causes testicular atrophy, and, when given to pregnant animals during gestation, may cause developmental changes. These feed studies were conducted under chronic exposure conditions leading to doses many times in excess of those that could occur through inhalation of dust in the occupational setting.
Carcinogenicity:	Boric Acid is not listed as a carcinogen by the Environmental Protection Agency (EPA), the State of California, or the International Agency for Research on Cancer (IARC).
Mutagenicity:	No data available.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Boric Acid Boron naturally occurs in seawater at an average concentration of 5 mg B/liter. In laboratory studies the acute toxicity (96-hr LC50) for under-yearling Coho salmon ( <i>Onchorhynchus kisutch</i> ) in seawater was determined as 40 mg B/L (added as Sodium Metaborate). The Minimum Lethal Dose for minnows exposed to Boric Acid at 20C for 6 hours is 18,000 to 19,000 mg/l in distilled water, 19,000 to 19,500 in hard water.  Rainbow Trout ( <i>S. gairdneri</i> ) 24-day LC50=150.0 mg/B/l 36-day NOEC-LOEC=0.75-1 mg B/l Goldfish: 7-day NOEC-LOEC = 26.50 mg/B/L 3-day LC50 = 178 mg/B/L
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Invertebrate: 48-hour LC50 Daphnids: 133 mg B/l

NOTE: Boron (B) is the element in Boric Acid which is used to characterize borate product ecological effects. To convert Boric Acid data to Boron (B), multiply by 0.1748.

Avian Toxicity:	Dietary levels of 100 mg/kg resulted in reduced growth of female mallards. As little as 30 mg/kg fed to mallard adults adversely affected the growth rate of offspring.
Environmental Hazards:	Persistence/Degradation: Boron and boron containing compounds, such as boric acid are naturally occurring and ubiquitous in the environment. In the presence of water, boric acid disassociate into boron and natural borates. Soil Mobility: The product is soluble in water and is leachable through normal soil. Phytotoxicity: Although boron is an essential micronutrient for healthy growth of boron-sensitive plants, it can be harmful to plants in higher quantities. Plants and trees can easily be exposed by root absorption to toxic levels of boron in the form of water-soluble borate leached into nearby soil or waters. Care should be taken to minimize the amount of borate product released to the environment.

## 13. DISPOSAL CONSIDERATIONS

Disposal:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Disposal of container and unused contents must be carried out in accordance with the federal, state and local requirements.
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## 14. TRANSPORTATION INFORMATION

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT:	Not Regulated
IMDG:	Not Regulated
IATA:	Not recommended to ship via air transportation.

## 15. REGULATORY INFORMATION

TSCA:	USA: Reported in the EPA TSCA Inventory.
SARA (311, 312):	Acute Health Hazard
SARA 313:	None of the ingredients are listed.



# SAFETY DATA SHEET

Right To Know Hazardous Substance List: Listed: NJ, PA  
California Proposition 65: This product is not listed.

Waste Classification: No data available.

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard based upon animal chronic toxicity studies of similar inorganic borate chemicals.

CERCLA Reportable Quantity: Not applicable.

## 16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: Health: 2  
Flammability: 0  
Reactivity: 0

NFPA Rating: Health: 2  
Flammability: 0  
Reactivity: 0

Created On: 6/2/2015  
Revision Date: 6/12/2018

Special Hazard Warning: Not applicable.





# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: CHLORINE FREE SHOCK  
Synonym(s): Oxone® Monopersulfate Compound PS-16; Potassium Monopersulfate; Potassium Peroxymonosulfate; No-Chlor  
Recommended Uses: Cleaning Agent, Oxidizing Agent  
SDS Reference: 85  
Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
6010 NW FIRST PLACE 320 INDUSTRIAL DR  
GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
Tel: 352-378-9696  
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE  

Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS: Corrosive.  
Skin Corrosion - Causes severe skin burns - Category 1B;  
Serious Eye damage/eye irritation - Causes serious eye damage - Category 1.  
Acute toxicity (oral) - Harmful if swallowed - Category 4.  
ENVIRONMENTAL HAZARDS: Harmful to aquatic life with long lasting effects.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):  
Causes digestive tract burns. Causes respiratory tract burns.

Precautionary Statements: Do not get in eye, on skin, or on clothing. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protections. Store locked up. Dispose of contents/container to an approved waste disposal plant.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin Contact: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if not well.

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a Poison Center or doctor immediately.

## 3. COMPOSITION

	<u>PERCENT %</u>	<u>CAS #</u>
Chemical Name: Pentapotassium bis(peroxymonosulphate) bis(sulphate)	86 - 96	70693-62-8
Dipotassium peroxodisulphate	0 - 5	7727-21-1
Potassium hydrogen sullphate	0 - 5	7646-93-7
Dipotassium disulphate	0 - 5	7790-62-7

## 4. FIRST AID

If In Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Immediately call a physician.

If on Skin or Clothing: Immediately flush skin with plenty of water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.

If Inhaled: Remove to fresh air. Call a physician immediately.

If Swallowed: Call a physician immediately. Clean mouth with water and drink small amounts of water. If a person vomits when lying on back, place them in the recovery position. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable: Water, foam or dry chemical. Do not use high volume water jet or carbon dioxide.

Extinguishing Media:



# SAFETY DATA SHEET

Specific Hazards from Chemical: Toxic or irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive. Cool closed containers exposed to fire with water spray. Fight any surrounding fire with suitable fire-extinguishing agents. Flood small amounts of decomposing products with water (add foaming agent to the water for better penetration). Remove any unaffected product. Control smoke with water spray.  
This product is an NFPA Class 1 Oxidizer.

Special Protective Equipment: Wear self-contained breathing apparatus and protective suit.

Other Information: Do not allow run-off from the fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wear personal protective equipment. Ensure adequate ventilation, especially in confined areas.

Methods and Materials for cleanup: Remove mechanically with care (e.g. with clean polyethylene plastic shovel). Avoid dust formation. Wash small residues with plenty of water.  
Do not release into the environment. Do not contaminate water. Do not allow material to contaminate ground water system. If the product contaminates rivers and lakes or drains, inform respective authorities. Never add other substances or waste material to product residue. Offer surplus and non-recyclable solutions to a licensed disposal company.

## 7. HANDLING AND STORAGE

Handling: For personal protection see Section 8. Product is hygroscopic. Never pour product residue back into storage container. Risk of decomposition. Keep away from combustible materials. Avoid dust formation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Do not store over 122 deg F.  
Avoid impurities (e.g. rust, dust or ash), risk of decomposition. Protect from moisture. Store away from other dangerous and incompatible materials.  
(NFPA Oxidizer Class 1)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Dipotassium peroxodisulphate:  
ACGIH TLV: TWA: 0.1 mg/m3 (as persulfate) - 8 hours.

Appropriate Engineering Controls: Provide adequate ventilation.

Individual Protection Measures: Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Hand Protection: Material - impervious gloves.  
Eye Protection: Wear safety glasses or coverall chemical splash goggles.  
Skin and Body Protection: Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots. Remove and wash contaminated clothing before re-use.  
Protective Measures: When using, do not eat or drink. Do not breathe dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Solid Granules	Flammability (solid/gas):	solid / gaseous. Does not ignite
Odor:	None	Upper/lower Flammability or	No data available
Odor Threshold:	No data available	Exposure limits:	No data available
pH:	2.1	Vapor Pressure:	No data available
Melting Point/Freezing Point:	>50°C (>122°F)	Vapor Density:	No data available
Initial Boiling Point/Boiling Range:	Not Applicable	Density:	2.35 g/cm3
Flash Point:	Not Applicable	Solubility(ies):	297 - 357 g/l
Evaporation Rate:	No data available	Partition Coefficient: n-octanol/water:	No data available
		Auto-ignition Temperature:	Not auto-flammable
		Decomposition Temperature:	>50°C (122°F)
		Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

Stability/Reactivity: Stable under recommended storage conditions.



# SAFETY DATA SHEET

Possibilities of Hazardous Reactions:	Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).
Conditions to Avoid:	Keep away from heat and sources of ignition. Protect from moisture.
Incompatible Materials:	Accelerators, strong acids, and bases, heavy metals and heavy metal salts, reducing agent. Avoid impurities (e.gg rust, dust ash), risk of decomposition.
Hazardous Decomposition Materials:	Oxygen / Sulphur dioxide / sulphur trioxide

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity:	Oxone TM PS-16: Dermal LD50 (rat): >5000 mg/kg. Oral LD50 (rat): 500 mg/kg. Inhalation LC50 (rat) - >5 mg/l (4 hr exposure)
	Skin Corrosion/Irritation: Rabbit: Corrosive after 3 minutes to 1 hour exposure. Serious Eye Damage / Eye Irritation: Rabbit: Irreversible effects on the eye. Sensitization; Guinea pig - negative
Chronic Toxicity:	Pentapotassium bis (peroxymonosulphate) bis (sulphate): Sub-Acute NOEL Oral (rat): >1000 mg/kg bw/day; 28 days Sub-chronic LOAEL Oral (rat): 600 mg/kg bw/day: 90 days, 7 days per week daily
Reproductive Toxicity:	No data available.
Carcinogenicity:	No classified as carcinogenic.
Mutagenicity:	Genotoxicity in vitro: Ames test: negative

## **12. ECOLOGICAL INFORMATION**

Aquatic Toxicity:	Pentapotassium bis(peroxymonosulphate) bis(sulphate): 96 h LC50: Oncorhynchus mykiss (rainbow trout): 53 mg/l 72 h EC50: Pseudokirchneriella subcapitata (green algae): >1 mg/l 48 h EC50: Daphnia magna (water flea): 3.5 mg/l 72 h OECD: Algae- Pseudokirchneriella subcapitata Fresh Water: 0.5 mg/l
	Dipotassium Peroxodisulphate: 72 h EC50: Algae- Pseudokirchneriella subcapitata: 83.7 mg/l 48 h EC: daphnia:120 mg/l 96 h LC50: Oncorhynchus mykiss (rainbow trout): 76.3 mg/l
Avian Toxicity:	No data available.
Environmental Hazards:	No data available.

## **13. DISPOSAL CONSIDERATIONS**

Disposal:	Dispose of in accordance with local, state and federal regulations.
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## **14. TRANSPORTATION INFORMATION**

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT:	UN3260, Corrosive Solid, Acidic, Inorganic, n.o.s. (Monopersulfate Compound), 8, PG II
IMDG:	UN3260, Corrosive solid, Acidic, Inorganic, n.o.s. (Monopersulfate Compound), 8, PG II, EmS: F-A, S-B
IATA:	Not recommended to ship via air transportation.

## **15. REGULATORY INFORMATION**

TSCA:	USA: Reported in the EPA TSCA Inventory.
SARA (311, 312):	Acute Health Hazard.
SARA 313:	Not applicable.
Right To Know Hazardous Substance List:	California Prop 65 - Not listed. New Jersey - Potassium hydrogen sulphate is listed on NJ Workplace Hazardous Substance list present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens)
Waste Classification:	No data available.



# SAFETY DATA SHEET

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).  
CERCLA Reportable Quantity: Not applicable.

## 16. OTHER INFORMATION

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HMIS Rating: Health: 3  
Flammability: 0  
Reactivity: 1

NFPA Rating: Health: 3  
Flammability: 0  
Reactivity: 1

Created On: 3/16/2015  
Revision Date: 6/8/2018

Special Hazard Warning: No data available





# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: WINTER STAIN-AWAY  
 Synonym(s): HEDP; 1-Hydroxyethylidene-1, 1-diphosphonic acid  
 Recommended Uses: Sequestering Agent  
 SDS Reference: 35

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
 6010 NW FIRST PLACE 320 INDUSTRIAL DR  
 GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
 Tel: 352-378-9696  
 24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE  
 TARGET ORGAN TOXICITY (SINGLE)



Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:  
 Eye Damage - Causes serious eye damage - Category 1 - H318  
 Skin Irritation - Causes severe skin burns and eye damage - Category 1 - H314  
 Specific target organ - single exposure - May cause damage to (kidney, liver, spleen) - Category 2 - H371  
 PHYSICAL HAZARDS:  
 Corrosive to many metals

Precautionary Statements: Corrosive. Causes severe skin burns and eye damage. May cause damage to kidney, liver and/or spleen. Wear protective gloves, eye protection and face protection when handling this product. Do not breathe vapors/gas/mist or spray. Wash hands thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.  
 Do not store product in mild steel, carbon steel, aluminum or other metals.

Eye Contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Wash with plenty of soap and water. Call a physician if irritation persists.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: Not data available

## 3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
1-Hydroxyethylidene-1, 1-diphosphonic acid	13 - 15	2809-21-4
Phosphorous Acid	0 - 1	10294-56-1

## 4. FIRST AID

If In Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. If easy to do, remove any contact lenses. Get immediate medical attention.

If on Skin or Clothing: Immediate first aid is not likely to be required. Wash with large amounts of water. If irritation persists, seek medical attention.

If Inhaled: Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air.

If Swallowed: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Recommended extinguishing media; water spray

Specific Hazards from Chemical: Hazardous decomposition: Carbon Monoxide, Carbon Dioxide

Special Protective Equipment: Firefighters, and other exposed, wear self contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.



# SAFETY DATA SHEET

Other Information: No data available.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. See Section 8 for Personal Protective Equipment.

Methods and Materials for cleanup: Warn everybody in sewers, basements and workpits of danger of corrosive hazard.  
Large Quantities: Prevent liquid entering basements and workpits. Keep out of drains and watercourses. Contain liquid spillage with sandbags or other means to prevent entry into drains Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.  
Large Spillage: Absorb in earth or sand. Sweep up into containers for disposal. Do not use metal containers for spilled material. Flush spill area with water.  
Small Spillage: Treat with hydrated lime or soda ash. Wash away small spills with plenty of water.

## 7. HANDLING AND STORAGE

Handling: Keep container closed. Open and handle containers with care. Empty product containers may contain residue. Do not reuse empty containers without commercial cleaning or reconditioning.

Storage: Store in a cool, well ventilated place away from incompatible materials. Do not allow product to freeze. Incompatible material: Attacks many metals, corrosive aluminum and mild steel.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: No workplace exposure limits have been established for this product.

Appropriate Engineering Controls: Provide natural or mechanical ventilation to minimize exposure. If practical, use local exhaust ventilation at sources of air contamination such as processing equipment.

Individual Protection Measures: Respiratory Protection - Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure is excessive. If used, full face piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.  
Eyes Protection - Wear chemical goggles. Have eye wash facilities immediately available at any location where eye contact can occur.  
Skin Protection - Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash thoroughly after handling. Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.  
Other Work Practices - Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to pale yellow liquid.	Flammability (solid/gas):	Not Applicable
Odor:	Mild odor	Upper/lower Flammability or	Not Applicable
Odor Threshold:	No data available	Exposure limits:	
pH:	<2	Vapor Pressure:	No data available
Melting Point/Freezing Point:	No data available	Vapor Density:	No data available
Initial Boiling Point/Boiling Range:	No data available	Density:	9.76 lbs/gal
Flash Point:	Nonflammable	Solubility(ies):	Soluble in water
Evaporation Rate:	No data available	Partition Coefficient: n-octanol/water:	No data available
		Auto-ignition Temperature:	Not Applicable
		Decomposition Temperature:	No data available
		Viscosity:	No data available

## 10. STABILITY AND REACTIVITY

Stability/Reactivity: Material is stable under normal conditions. Substantial heat is evolved when mixed with alkali.

Possibilities of Hazardous Reactions: Hazardous Polymerization: Will Not Occur.

Conditions to Avoid: Contact with common metals produces flammable hydrogen gas.



# SAFETY DATA SHEET

Incompatible Materials: Strong oxidizing agents and strong bases.  
Attacks many metals. Corrosive to aluminum and mild steel.

Hazardous Decomposition Materials: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine. Carbon dioxide.

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity: COMPONENT TOXICITY:  
1-Hydroxyethylidene-1,1-diphosphonic acid:  
Oral LD50: 2400 mg/kg Rat  
Dermal LD50: 10000 mg/kg Rabbit

Acute Toxicity Estimates (ATE):  
Skin Corrosion - Category 2 - Causes skin irritation  
Serious Eye Damage - Category 1 - Causes serious eye damage.

No other toxicity data is available.

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

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

Mutagenicity: No data available.

## **12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: (Based upon 60% HEDP)  
Bluegill - 96 h LC50: 868 mg/l  
Rainbow trout - 96 h LC50: 368 mg/l  
Daphnia Magna - 48 h EC50: 527 mg/l

Algae: 96h EC50: 3 mg/l (Algae growth inhibition is due to the ability of HEDP to complex materials and not to toxicity per se.)

Avian Toxicity: No data available.

Environmental Hazards: No data available.

## **13. DISPOSAL CONSIDERATIONS**

Disposal: Observe all federal, state and local regulations when disposing of this product/container. Reference guidelines under 40 CFR Parts 261.  
Empty containers may retain product residue. Empty drums should be completely drained, properly bunged and promptly returned to drum reconditioner, or properly disposed of.

## **14. TRANSPORTATION INFORMATION**

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: UN3265, Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1,1-diphosphonic acid), 8, PG II

IMDG: UN3265, Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1,1-diphosphonic acid), 8, PG II, EMS: F-A, S-B

IATA: Not recommended to ship via air transportation.

## **15. REGULATORY INFORMATION**

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): Acute Health Hazard / Chronic Health Hazard

SARA 313: None of the ingredients are listed.

Right To Know Hazardous Substance List: California Proposition 65: not listed.  
New Jersey - Phosphorous Acid >1%

Waste Classification: No data available.

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable Quantity: Not applicable.



# SAFETY DATA SHEET

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## **16. OTHER INFORMATION**

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

Created On: 5/27/2015

Special Hazard Warning: Not applicable

Revision Date: 6/12/2018



# SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

Product Name: WINTERIZER  
 Synonym(s): Winterizer  
 Recommended Uses: Winterizer for swimming pools  
 SDS Reference: 40

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: IN THE SWIM  
 6010 NW FIRST PLACE 320 INDUSTRIAL DR  
 GAINESVILLE, FL 32607 WEST CHICAGO IL 60185  
 Tel: 352-378-9696  
 24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE  
 Signal Word: DANGER



Hazard Statements: HEALTH HAZARDS:  
 Eye Damage - Causes serious eye damage - Category 1  
 Skin Sensitizer - May cause an allergic skin reaction.  
 ENVIRONMENTAL HAZARDS: Toxic to fish and aquatic invertebrates.

Precautionary Statements: Corrosive. Causes serious eye damage. Do not get in eyes. Wear safety glasses with side shields, chemical splash goggles, face-shield, protective clothing, and chemical resistant gloves when handling this product. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Eye Contact: Causes serious eye damage.  
 Skin Contact: May cause an allergic skin reaction.  
 Inhalation: Avoid breathing vapors or fumes.  
 Ingestion: If feeling unwell, call a physician or doctor for advice.

## 3. COMPOSITION

Chemical Name:	PERCENT %	CAS #
Copper Triethanolamine Complex	3 - 4	82027-59-6

## 4. FIRST AID

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 control center or doctor for treatment.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for treatment advice.

If Swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIREFIGHTING MEASURES

Suitable / Unsuitable Extinguishing Media: Choose extinguishing media suitable for surrounding materials.

Specific Hazards from Chemical: This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable.

Special Protective Equipment: Additional respiratory protection is necessary when a spill or accident involving this product occurs. You are recommended to use a NIOSH/MSHA approved positive pressure supplied-air respirator. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles.

Other Information: No data available.



# SAFETY DATA SHEET

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Methods and Materials for cleanup:**  
**Air Release:** Vapors may be suppressed by the use of a water fog or spray. Contain all liquid for treatment or neutralization.  
**Water Release:** This material is heavier than and miscible with water. Divert water flow around spill if possible and safe to do. If unable to divert, create a dam to contain material. Continue to handle as described in land spill.  
**Land Spill:** Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original containers. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using a soap solution and flush with large amounts of water.  
**Spill Residues:** Dispose of per guidelines under Waste Disposal Method.

## 7. HANDLING AND STORAGE

**Handling:** Store in a cool, dry, well-ventilated area. Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Storage:** Store in original container in a cool, dry and well ventilated place. Avoid freezing. Mix well before using. Store away from oxidizers and away from food and feedstuff.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

**OSHA permissible exposure limit:** No data available.

**Appropriate Engineering Controls:** Use local exhaust ventilation.

**Individual Protection Measures:**  
**Respirator Type:** NIOSH/MSHA approved positive pressure supplied-air respirator.  
**Protective Clothing Type:** Impervious: This includes" gloves, boots, apron, protective suit.  
**Skin and Eye Protective Equipment:** Use chemical goggles and impermeable splash-proof gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Clear Blue Liquid	<b>Flammability (solid/gas):</b> No data available
<b>Odor:</b> Odorless	<b>Upper/lower Flammability or Exposure limits:</b> No data available
<b>Odor Threshold:</b> No data available	<b>Vapor Pressure:</b> No data available
<b>pH:</b> 7.0	<b>Vapor Density:</b> No data available
<b>Melting Point/Freezing Point:</b> No data available	<b>Density:</b> 8.679 lbs/gal
	<b>Solubility(ies):</b> Miscible
<b>Initial Boiling Point/Boiling Range:</b> No data available	<b>Partition Coefficient: n-octanol/water:</b> No data available
	<b>Auto-ignition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Decomposition Temperature:</b> No data available
<b>Evaporation Rate:</b> No data available	<b>Viscosity:</b> No data available

## 10. STABILITY AND REACTIVITY

**Stability/Reactivity:** Material is stable under normal temperatures.

**Possibilities of Hazardous Reactions:** Hazardous Polymerization: Will Not Occur

**Conditions to Avoid:** Exposure to elevated temperatures.

**Incompatible Materials:** Oxidizers.



# SAFETY DATA SHEET

Hazardous Decomposition Materials: Carbon monoxide, carbon dioxide and oxides of nitrogen on combustion of dried product.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Below Toxicity data is based upon the stronger 23.5% Copper Triethanolamine Complex:  
Acute Toxicity:  
Oral LD50: 1312 mg/kg  
Dermal LD50: 2918 mg/kg  
Inhalation LC50: 0.54 mg/l  
Skin Sensitization: sensitizer  
Primary Eye - Eye Irritant (Category III)  
Primary Dermal - Corrosive (Category I)

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

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

Mutagenicity: This product is not known or reported to be mutagenic.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxic to fish and aquatic invertebrates.

Avian Toxicity: No data available.

Environmental Hazards: Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.  
Certain water conditions including low pH ( $\leq 6.5$ ), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

Disposal: Waste Disposal Method: 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.  
As a non-hazardous liquid waste, it should be disposed of in accordance with local, state, and federal regulations by treatment to remove copper.

## 14. TRANSPORTATION INFORMATION

Package exceptions may be applicable. Refer to the appropriate IMDG, IATA and/or 49 CFR regulations accordingly.

DOT: Not Regulated, but when individual pack is over 28.8 gal then: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (contains Cupric Sulfate), Class 9, PG III

IMDG: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (contains Cupric Sulfate), Class 9, PG III, MARINE POLLUTANT, EmS: F-A, S-F

IATA: Not recommended to ship via air transportation.

## 15. REGULATORY INFORMATION

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): No data available

SARA 313: Supplier Notification Requirements, Per 40 CFR 372.45: This mixture contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.  
Diethanolamine (111-42-2)

Right To Know Hazardous Substance List: California Proposition 65: This product contains Diethanolamine, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Waste Classification: As a non-hazardous liquid waste, it should be disposed of in accordance with local, state, and federal



# SAFETY DATA SHEET

regulations by treatment to remove copper.

Workplace Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable Quantity: This product contains approx. 4% Copper Sulfate Pentahydrate (7758-99-8); RQ of Copper Sulfate Pentahydrate is 10 lbs.

## 16. OTHER INFORMATION

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HMIS Rating: No data available

NFPA Rating: No data available

Created On: 5/4/2015  
Revision Date: 6/12/2018

Special Hazard Warning: Not applicable