

## 1. PRODUCT IDENTIFICATION

Product Name: CONDITIONER PLUS  
 Synonym(s): Orthoboric Acid, Conditioner Plus  
 Recommended Uses: Improves swimming pool water quality and filtration  
 SDS Reference: 13

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: POOLBLU ENTERPRISES, INC  
 6010 NW FIRST PLACE P.O. BOX 751  
 GAINESVILLE, FL 32607 LAKE GENEVA WI 53147  
 Tel: 352-378-9696  
 24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

## 2. HAZARD(S) IDENTIFICATION

Classification: REPRODUCTIVE TOXIN  
 INHALATION HAZARD  
 EYE IRRITANT



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 - H332  
 Eye Irritant - Causes serious eye irritation - Category 2 - H319  
 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). Harmful if inhaled. 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 before reuse.

Eye Contact: Eye irritant. Wear eye protection. Rinse cautiously with water for several minutes. Obtain medical attention if irritation occurs.

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

	<u>PERCENT %</u>	<u>CAS #</u>
Chemical Name: Trade Secret / Borate Blend	100%	
The specific identity and/or percentages of this product are being withheld as a trade secret. The specific hazards of this product are noted in the applicable sections of this document.		

## 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: Any fire extinguishing media may be used on nearby fires.

Extinguishing Media:

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



# SAFETY DATA SHEET

Special Protective Equipment: No data available.

Other Information: No data available

### 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: Borax Pentahydrate is listed by OSHA, CAL OSHA and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust".  
OSHA:PEL (total dust) 15 mg/m3  
OSHA:PEL (respirable dust) 5 mg/m3  
ACGIH: TLV 10 mg/m3  
Cal OSHA:PEL 10 mg/m3

Boric Acid is listed by OSHA, CAL OSHA and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust".  
OSHA: PEL 15 mg/m3 total dust and 5 mg/m3 respirable dust  
ACGIH: TWA 2 mg/m3 ; STEL 6 mg/m3

Appropriate Engineering Controls: Use local exhaust ventilation to keep airborne concentrations of 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 granules	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:	5.1 (3% solution @ 20°C)	Vapor Density:	No data available
Melting Point/Freezing Point:	169°C	Density:	57 - 65 lbs/ft3
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.



# SAFETY DATA SHEET

**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 based upon Component Parts:  
Borax Pentahydrate:  
Low Acute Oral LD50 (rat): 3200 - 3500 mg/kg body weight.  
Low Acute Dermal LD50 (rabbit): >2000 mg/kg  
Low Acute Inhalation LC50 (rat): >2.0 mg/l  
Skin irritation: non-irritation  
Eye irritation: non-irritant.  
Not a skin sensitizer.

Boric Acid:  
Low Acute Oral LD50 (rat): 3500 - 4100 mg/kg body weight  
Low Acute Dermal LD50 (rabbit): >2000 mg/kg  
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:** Fish Toxicity on Component Parts :  
Borax Pentahydrate  
LC50 Rainbow Trout (24 day): = 88 mg B/l  
LC50 Rainbow Trout (32 day): = 54 mg B/l  
  
LC50 Goldfish (7 day): = 65 mg B/l  
LC50 Goldfish (3 day): = 71 mg B/l  
Invertebrate: 24-hour LC50 Daphnia: 242 mg B/l  
Green Algae: 96-hour LC10: 24 mg B/l

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 (*Onchorhynchus kisutch*) 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 (*S. gairdneri*)  
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

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:** No data available.



# SAFETY DATA SHEET

**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.

### **14. TRANSPORTATION INFORMATION**

**Transportation:** Please refer to applicable regulations or call company noted under Section I.

### **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.  
**Right To Know Hazardous Substance List:** Listed: CA, FL, MA, MN, NJ, PA  
**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

**Revision Date:** 6/2/2015

**Special Hazard Warning:** Not applicable.