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.
6010 NW FIRST PLACE
GAINESVILLE, FL 32607
Tel: 352-378-9696

Distributed By: IN THE SWIM
320 INDUSTRIAL DR
WEST CHICAGO IL 60185

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

		PERCENT %	CAS #
Chemical Name:	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

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/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 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
Odor:	Odorless
Odor Threshold:	No data available
pH:	4.8 (2% solution @ 20°C)
Melting Point/Freezing Point:	169°C
Initial Boiling Point/Boiling Range:	No data available
Flash Point:	Not Flammable
Evaporation Rate:	No data available
Flammability (solid/gas):	Not Flammable
Upper/lower Flammability or Exposure limits:	Not Applicable
Vapor Pressure:	No data available
Vapor Density:	No data available
Density:	57 - 65 lbs/ft3
Solubility(ies):	Soluble in water
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:	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

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 (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: 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.

14. TRANSPORATION 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.

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
		Special Hazard Warning:	Not applicable.

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