

# POOLPROOF®

## Hexaborate Water Harmonizer®



### What is PoolProof?

- Premixed pH balanced micro-micellar borate emulsion.
- Compatible with all materials used in the normal maintenance of swimming pools and can be used in all pools and spas.

### What PoolProof Does

*Saves on chemicals.*

- Extends chemical life.
- Maintains stable pH – further reducing cost.

*Gentle on swimmers.*

- Makes skin feel smooth & relieves eye irritation.

*The pool looks amazing!*

- Adds a crystalline “Bahamas” sparkle to pool.

*Gentle on the environment.*

- Only a single application with annual top-up is needed.

### How PoolProof Saves Money

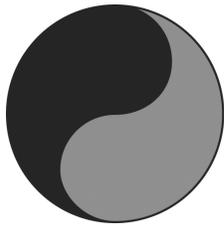
- By helping to maintain a stable pH, PoolProof reduces the amount of chemicals needed to adjust pH levels.
- PoolProof extends the life of chemicals and other pool sanitizers, reducing the amount of chemicals needed.
- Only a single application with annual top-up is needed.
- Your customers will save energy costs because using PoolProof allows them to reduce the pump time required to keep their pools clean by up to 40%.



*The World's Leader in Borate Technology*

100 Nisus Drive • Rockford, TN 37853  
800.264.0870 • [www.poolproof.com](http://www.poolproof.com)





# PoolProof®

Hexaborate Water Harmonizer®

**pH balanced, micro-micellar borate emulsion  
for all pools and spas**

**ACTIVE INGREDIENT:**

Disodium Octaborate Tetrahydrate ..... 47.6%

**OTHER INGREDIENTS** ..... 52.4%

**TOTAL**..... 100.0%

*Note: This product contains 10% B as elemental boron (B)  
and is equivalent in boron content to:*

- 86.5% as sodium tetraborate
- 32.3% as boric oxide

**CA Reg. No. 64405-50001**

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

Caution: Harmful if Swallowed. Thoroughly wash with water after handling.

## DIRECTIONS FOR USE

PoolProof Hexaborate Water Harmonizer is a pH balanced, micro-micellar borate emulsion that provides the following benefits:

- Stabilizes pH to correct level (7.6–7.8) to help:
  - Relieve eye irritation
  - Reduce chlorine loss
  - Maintain quality with lower cyanuric acid levels
- Reduces pump time
- Makes water sparkle
- Makes skin feel smooth

PoolProof Hexaborate Water Harmonizer comes as a pre-mixed, ready-to-use liquid. It is compatible with all materials used in the normal maintenance of swimming pools, including saltwater pools and spas.

Using the table on this page, add the correct amount of material in your pool water to achieve a minimum of 36 ppm of boron. For the first application, mix 1 (one) gallon of PoolProof Hexaborate Water Harmonizer to every 3000 gallons of pool water, and mix 1/6 gallon to every 500 gallons of spa water (40 ppmB). For problem or high-load pools, add PoolProof to increase PPM level up to 80 ppm to improve performance (up to two gallons of PoolProof per 3000 gallons of pool water).

**Shake well** before pouring into pool over the top of one of the outflow jets while pump is operating. Rinse empty container with pool water and add to pool. Run pump to achieve complete turnover, then test the pH level. It should be 7.6–7.8. Storage at high temperatures or for extended periods of time is expected to cause settling. Settled product may take longer to dissolve, but will not affect performance.

Water loss from filter backwash, splash-out, rainfall draining or winterizing draw down will reduce the amount of PoolProof Hexaborate Water Harmonizer. Use a Boron Indicator Test to maintain 36–50 ppm of boron and add product as needed. PoolProof Hexaborate Water Harmonizer does not evaporate and is not degraded by sunlight.

Size of Pool/Spa (gallons)	PoolProof (gallons)	Size of Pool/Spa (gallons)	PoolProof (gallons)
500	1/6 (22 ozs.)	15,000	5
1,000	1/3 (43 ozs.)	18,000	6
2,000	2/3 (86 ozs.)	21,000	7
3,000	1	24,000	8
6,000	2	27,000	9
9,000	3	30,000	10
12,000	4	45,000	15

If your pool or spa size is not listed, add or subtract **PoolProof Hexaborate Water Harmonizer** using the table above to help calculate the specific amount of product you need.

### Winterization

A pool that has been treated with PoolProof Hexaborate Water Harmonizer will remain sparkling clear during the winter season with minimal effort. Before shutting the pool down for the winter, test the water to make sure that an adequate level of PoolProof Hexaborate Water Harmonizer is present (36-50 ppm of boron).

### Notice

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read **Warranty Limitations and Disclaimer** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Limitations and Disclaimer**.

### Storage and Disposal

**Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze. **Disposal: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## First Aid

**If Swallowed:** If large amounts are swallowed, immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

**PoolProof Hexaborate Water Harmonizer** is of low toxicity and ingestion of a small amount accidentally (e.g., a teaspoon) will not cause harm.

- Not an inhalation hazard
- Non-irritating to eyes and skin.
- Not absorbed through intact skin.

## Warranty Disclaimer

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

### Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label

instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of use/application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

### Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law, (a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and (b) **TO THE EXTENT NOT PROHIBITED BY APPLICABLE LAW, IN NO CASE SHALL MANUFACTURER BE LIABLE FOR DIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any applicable patent not owned by Nisus Corporation, whether mentioned or not, without procurement of a license (if necessary) from the owner, following investigation by the user.



**Nisus Corporation**  
100 Nisus Drive • Rockford, TN 37853  
800-264-0870

## SAFETY DATA SHEET

# PoolProof®

Health Emergencies: INFOTRAC® (800) 535-5053

### 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** PoolProof®

**Recommended use of the chemical and restrictions on use:** Micro-cellular borate emulsion for all pools and spas.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 01/12/16

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

**Health**

Reproductive Toxicity  
Category 2

**GHS Label Elements:**



**Signal Word:** Warning!

**Statements of Hazard**

H303: May be harmful if swallowed.

H361: Suspected of damaging fertility or the unborn child.

**Precautionary Statements**

P202: Do not handle until all safety precautions have been read and understood.

P308+P313: If exposed or concerned: Get medical advice/attention.

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Disodium Octaborate Tetrahydrate	12280-03-4	47.6%
Non-Hazardous Ingredients	Proprietary	52.4%

The exact formulation is being withheld as a trade secret.

### 4. FIRST AID MEASURES

**Eye:** Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

**Ingestion:** If large amounts are swallowed, immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Most important Symptoms:** May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for large ingestions.

### 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Specific hazards arising from the chemical:** A solid stream of water or foam directed into hot, burning liquids can cause frothing. Burning may product carbon monoxide and carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain all runoff.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Avoid releases to the environment.

**Methods and Materials for Containment and Cleaning Up:** Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep containers closed when not in use.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

Disodium Octaborate Tetrahydrate	2 mg/m <sup>3</sup> TWA ACGIH TLV (Inhalable)
	6 mg/m <sup>3</sup> STEL ACGIH TLV (Inhalable)

**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

**Skin Protection:** Wear impervious gloves such as butyl rubber, nitrile or neoprene.

**Eye Protection:** Wear safety goggles or glasses where splashing is possible.

**Other:** Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** White opaque liquid with no odor.

**Physical State:** Liquid

**Odor Threshold:** Not established

**Vapor Density:** N/A

**Initial Boiling Point/Range:** >212°F (>100°C)

**Solubility In Water:** Soluble

**Vapor Pressure:** Same as water

**Relative Density:** 1.2

**Evaporation Rate:** Not determined  
**Melting/Freezing Point:** Not determined  
**pH:** 6.9-8.0 (50% solution in water)  
**Percent Volatile:** 36% by weight  
**Octanol/Water Coefficient:** Not determined  
**Decomposition Temperature:** Not determined  
**Viscosity:** Not determined    **Flammability (solid, gas):** N/A  
**Flashpoint:** None    **Autoignition Temperature:** None  
**Flammable Limits: LEL:** Not determined    **UEL:** Not determined

#### 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive  
**Chemical Stability:** Stable under normal storage and handling conditions.  
**Possibility of Hazardous Reactions:** None known.  
**Conditions to Avoid:** None known.  
**Incompatible Materials:** Avoid strong oxidizing agents.  
**Hazardous Decomposition Products:** When heated to decomposition emits carbon monoxide and carbon dioxide.

#### 11. TOXICOLOGICAL INFORMATION

##### HEALTH HAZARDS:

**Ingestion:** Harmful if swallowed. Repeated or high levels of ingestion may cause potentially fatal kidney damage.  
**Inhalation:** Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.  
**Eye:** May cause slight irritation with redness, pain and tearing. Product was not irritating in a study with rabbits.  
**Skin:** May cause irritation on prolonged or repeated contact. Product was not irritating in a study with rabbits. Negative in a guinea pig sensitization study.  
**Chronic:** Borates have been shown to have some chronic toxicity in animals fed high doses over long periods, similar to that of alcohol, but this has not been found in humans.  
**Sensitization:** This material is not known to cause sensitization.  
**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.  
**Germ Cell Mutagenicity:** No data available  
**Reproductive Toxicity:** Borates have been found to have some reproductive toxicity in animals, but this has not been found in humans.  
**Numerical Measures of Toxicity:**  
Product Toxicity Data:  
Oral rat LD<sub>50</sub>: >5000 mg/kg; Dermal rabbit LC<sub>50</sub>: >5050 mg/kg  
Component Toxicity Data:  
Disodium Octaborate Tetrahydrate: Oral rat LD<sub>50</sub>: 3500-4100 mg/kg;  
Dermal rabbit LD<sub>50</sub>: >2000 mg/kg; Inhalation rat LC<sub>50</sub>: >2.0 mg/L

#### 12. ECOLOGICAL INFORMATION

##### Ecotoxicity:

Disodium Octaborate Tetrahydrate: EC<sub>10</sub> Green algae: 24 mg B/L/96 hr; LC<sub>50</sub> Daphnia Magna: 133 mg B/L/48 hr; NOEC-LOEC Daphnia Magna: 6-13 mg B/L/21-day; LC<sub>50</sub> Limanda limanda: 74 mg B/L/96 hr; LC<sub>50</sub> Rainbow Trout: 150 mg B/L/24-day, 100 mg B/L/32-day; LC<sub>50</sub> Goldfish: 46 mg B/L/7-day, 178 mg B/L/3-day  
**Persistence and Degradability:** Disodium Octaborate Tetrahydrate degrades to boron.  
**Bioaccumulative Potential:** Disodium Octaborate Tetrahydrate: Log K<sub>ow</sub>: -0.7570 at 25°C.  
**Mobility in Soil:** Disodium Octaborate Tetrahydrate is soluble in water and is leachable through normal soil.  
**Other Adverse Effects:** Some plants are sensitive to boron. Avoid releases the environment.

#### 13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. If container is empty: do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product into any indoor or outdoor drain.

#### 14. TRANSPORTATION INFORMATION

**DOT Hazardous Materials Description:** Not Regulated (unless package contains a reportable quantity)

#### 15. REGULATORY INFORMATION

**CA REG. NO.:** 64405-50001

**CERCLA:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Not Hazardous

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are TSCA compliant.

#### 16. OTHER INFORMATION

##### NFPA Rating:

Health = 1    Flammability = 0    Instability = 0

##### HMIS Rating:

Health = 1    Flammability = 0    Physical Hazard = 0

**SDS Revision History:** 01/23/15: New SDS  
01/12/16: Revised

##### WARRANTY DISCLAIMER

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2. Replacement of amount of product used.

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# NOTES



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