

# MATERIAL SAFETY DATA SHEET

Date Issued: 04/07/2011

MSDS No: BW Spa Rust &amp; Scale

## Blue Wave Spa Rust & Scale

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave Spa Rust & Scale

**GENERAL USE:** Metal Control for Spas

**DISTRIBUTOR**

Blue Wave Products  
1745 Wallace Ave # B  
St Charles, IL 60174

**Product Stewardship:** (800) 579-0977

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Causes eye, skin and digestive tract burns. Mist may cause respiratory tract burns.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Corrosive. Causes eye burns and permanent tissue damage.

**SKIN:** Corrosive. Causes permanent skin damage.

**INGESTION:** Corrosive to mouth, esophagus and stomach.

**INHALATION:** Mist may be severely irritating to nose, throat and lungs depending upon concentration and duration of exposure.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**CARCINOGENICITY:** Not listed by NTP, IARC or OSHA.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS
Phosphonic Acid, (1-hydroxyethylidene)bis-	2809-21-4	220-552-8

**COMMENTS:** Proprietary blend. Ingredients in this section have been determined to be hazardous as defined by 29CFR 1910.1200.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately wash with large amounts of water; use soap, if available. Remove contaminated clothing, including shoes, after washing has begun. Get immediate medical attention.

**INGESTION:** Do not induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. Do not attempt to give anything to an unconscious person.

If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty.

# MATERIAL SAFETY DATA SHEET

Date Issued: 04/07/2011

MSDS No: BW Spa Rust &amp; Scale

## Blue Wave Spa Rust & Scale

**INHALATION:** Immediately move the victim from exposure and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > 100°C (212°F) TAG CC

**FLAMMABLE LIMITS:** Non-flammable.

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING PROCEDURES:** Material will not burn. Containers can build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed surfaces and to protect personnel.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Contain spilled material with sand or earth. Recover by pumping or with suitable absorbent.

**LARGE SPILL:** Prevent additional discharge of material if able to do so without hazard. Warn downwind areas of corrosive release hazard. Advise authorities.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

**GENERAL PROCEDURES:** Material is water soluble/dispersible and may not be recoverable.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep container closed. Both open and handle container with care. Store in a cool, well ventilated place away from incompatible materials.

Do not pressurize, cut or heat container. Empty product containers may contain product residue. Do not reuse empty containers.

**STORAGE:** Corrosive to most metals, including carbon steel, aluminum/aluminum alloys and copper /copper alloys.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles and face shield.

**SKIN:** Chemical-resistant gloves.

**RESPIRATORY:** Where overexposure by inhalation may occur; or other means of exposure reduction are not adequate, approved respirators may be necessary.

**WORK HYGIENIC PRACTICES:** Provide safety shower and eyewash station in the work area.

# MATERIAL SAFETY DATA SHEET

Date Issued: 04/07/2011

MSDS No: BW Spa Rust &amp; Scale

## Blue Wave Spa Rust & Scale

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid**ODOR:** Faint.**pH:** < 1.1 to 1.6**BOILING POINT:** > 100°C**FREEZING POINT:** < 0°C**FLASHPOINT AND METHOD:** > 100°C (212°F) TAG CC**SOLUBILITY IN WATER:** Soluble**SPECIFIC GRAVITY:** 1.056

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Contact with common metals might produce flammable hydrogen gas.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of phosphorous and carbon; acids of phosphorous, phosphine, oxides of carbon, oxides of nitrogen.**INCOMPATIBLE MATERIALS:** Strong oxidizers and strong alkalis.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**ORAL LD<sub>50</sub>:** 1800 mg/kg (mice)**NOTES:** Listed amounts are for neat product.**TARGET ORGANS:** Neat product may cause damage to the following organs: blood, gastrointestinal tract, upper respiratory tract, skin, eyes, bones.

### 12. ECOLOGICAL INFORMATION

**GENERAL COMMENTS:** Listed information is for neat product.**COMMENTS:** LC50 = 527 mg/l 48 hours Daphnia magna

LC50 = 368 mg/l 96 hours Rainbow Trout

LC50 = 868 mg/l 96 hours Bluegill sunfish

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.

# MATERIAL SAFETY DATA SHEET

Date Issued: 04/07/2011

MSDS No: BW Spa Rust &amp; Scale

## Blue Wave Spa Rust & Scale

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Organic, N.O.S. (Phosphonic acid)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 3265

**PACKING GROUP:** III

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** None

**OTHER SHIPPING INFORMATION:** DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 1 gallons.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Hazard Categories: Health: Immediate (Acute) Health Hazard

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** No components of this product are present above the de minimus levels.

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All components are listed on the TSCA Inventory.

**RCRA STATUS:** When disposed of, this product may be regulated as a RCRA Hazardous Waste with the characteristic of corrosivity due the pH of the neat material.

### 16. OTHER INFORMATION

**REVISION SUMMARY:** New MSDS

#### HMIS RATING

<b>HEALTH:</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY:</b>	<input type="checkbox"/>	<b>0</b>
<b>PHYSICAL HAZARD:</b>	<input type="checkbox"/>	<b>1</b>
<b>PERSONAL PROTECTION:</b>	<input type="checkbox"/>	

**MANUFACTURER DISCLAIMER:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).