

MATERIAL SAFETY DATA SHEET

Date Issued: 09/12/2008
MSDS No: Blue Wave Blitz for Spas
Date Revised: 08/30/2011
Revision No: 3

Blue Wave Blitz for Spas

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Blitz for Spas

GENERAL USE: Oxidizer

PRODUCT DESCRIPTION: Potassium Monopersulfate Compound (Peroxygen Salt)

DISTRIBUTOR

Blue Wave Products

1745 Wallace Ave # B

St Charles, IL 60174

Product Stewardship: (800) 759 -0977

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White granular product

IMMEDIATE CONCERNS: This product is a skin and eye corrosive, and a nose and throat irritant. May cause allergic skin reactions in sensitive individuals. Ingestion may cause inflammation and damage to the lining of the stomach, resulting in bleeding.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye corrosion or ulceration. Severe eye damage may result if not immediately treated.

SKIN: Corrosive to skin. Skin contact with aqueous solutions or the dry powder upon contact with moisture or perspiration may cause skin burns or ulceration. Temporary body hair loss may occur in contacted areas. Skin contact with the product may cause allergic skin reactions in sensitive individuals.

INGESTION: May cause gastritis, possibly progressing to necrosis or hemorrhage.

INHALATION: May cause nose bleeds and irritation of the upper respiratory passages with coughing and discomfort.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

MEDICAL CONDITIONS AGGRAVATED: Individuals with pre-existing conditions of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

3. COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL SAFETY DATA SHEET

Date Issued: 09/12/2008
 MSDS No: Blue Wave Blitz for Spas
 Date Revised: 08/30/2011
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Blue Wave Blitz for Spas

Chemical Name	Wt.%	CAS	EINECS
Magnesium Carbonate	2	546-93-0	208-915-9
Potassium Bisulfate	23	7646-93-7	231-594-1
Potassium Peroxydisulfate	3	7727-21-1	231-781-8
Potassium Peroxymonosulfate	43	10058-23-8	233-187-7
Potassium Sulfate	29	7778-80-5	231-915-5

4. FIRST AID MEASURES

EYES: Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. Call a physician immediately.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse.

INGESTION: DO NOT INDUCE VOMITING. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Will not burn.

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Water. Do not use carbon dioxide or other gas-filled fire extinguishers. They will have no effect on decomposing persulfates.

EXPLOSION HAZARDS: Improper storage of large masses of this product can trap heat and lead to ignition of combustibles. Grinding or intensive mixing may cause decomposition with liberation of heat and oxygen; ignition of oxidizing material, if present, may occur.

FIRE FIGHTING PROCEDURES: Will release oxygen when heated, intensifying a fire. Acidic mist may be present. Self contained breathing apparatus should be used.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up thoroughly. Flush area with low pressure water.

7. HANDLING AND STORAGE

HANDLING: Do not inhale. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

STORAGE: Store in a cool, dry, well-ventilated area away from heat sources.

LOADING TEMPERATURE: Replace the lid on plastic pails when they are not in use to prevent contamination and extend

MATERIAL SAFETY DATA SHEET

Date Issued: 09/12/2008
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 Revision No: 3

Blue Wave Blitz for Spas

shelf life.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Magnesium Carbonate	TWA		15T, 5	NIC	(10)
Potassium Peroxydisulfate	TWA				0.1

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields.

SKIN: Where there is potential for skin contact, wear impervious gloves, apron, pants and jacket.

RESPIRATORY: A NIOSH-approved air purifying respirator with an appropriate particulate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential of an uncontrolled release, if exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

COMMENTS: NOTE: EXPOSURE LIMIT OF MONPERSULFATE COMPOUND

PEL = Particulates (Not Otherwise Regulated) 15 mg/m³, 8 Hr. TWA, total dust

TLV = None established.

AEL (Manufacturer's recommended exposure limit) Oxone Monopersulfate Compound - 1 mg/m³; Total Dust, 8 & 12 hr TWA.
 Potassium Sulfate - 10 mg/m³, 8 hr. TWA.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Mild chlorine.

APPEARANCE: White granular.

pH: 2.3 (1% solution)

VAPOR PRESSURE: None

VAPOR DENSITY: Not volatile.

BOILING POINT: @ 760 mm Hg - decomposes

MELTING POINT: Decomposes

FLASHPOINT AND METHOD: Will not burn.

MATERIAL SAFETY DATA SHEET

Date Issued: 09/12/2008
MSDS No: Blue Wave Blitz for Spas
Date Revised: 08/30/2011
Revision No: 3

Blue Wave Blitz for Spas

EVAPORATION RATE: Not volatile.
SPECIFIC GRAVITY: 1.000 to 1.400
(VOC): 100.000

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable when handled and stored as indicated.

CONDITIONS TO AVOID: May be unstable at temperatures above 170 deg C (338 deg F). Avoid storage at temperatures above 52 deg C (125 deg F). Prevent ingress of humidity and moisture into container or package. Always close the lid.

POSSIBILITY OF HAZARDOUS REACTIONS: Decomposes when heated or dampened, releasing oxygen and heat of decomposition.

INCOMPATIBLE MATERIALS: The mixture of this product with compounds containing halides or active halogens (bromine, chlorine, iodine) can cause the release of the respective halogen gas, if moisture is present. Avoid these gases (bromine and chlorine) because they are very irritating to eyes and lungs even at low concentrations. Never mix this product with dry or concentrate bromine-containing chemicals such as bromates, bromides, or any concentrated bromine pool chemicals. Mixing this product with dry chlorine chemicals such as hypochlorites, sodium dichloroisocyanurate (dichlor), sodium trichloroisocyanurate (trichlor) or with sodium chloride (salt), may cause the release of chlorine gas.

Mixing with cyanides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts such as those of cobalt, nickel, copper, or manganese can cause decomposition with release of oxygen and heat.

11. TOXICOLOGICAL INFORMATION

ACUTE

SKIN ABSORPTION: > 11000 mg/kg (rabbits)

ORAL LD₅₀: 200-2000 mg/kg (rat)

INHALATION LC₅₀: > 5 mg/L (4 hour)

Notes: In rats.

EYE EFFECTS: This product is a severe eye irritant in animals.

SKIN EFFECTS: This product is a severe skin irritant in animals, but not a skin sensitizer.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 53 mg/L (Rainbow Trout)

48-HOUR EC₅₀: 3.5 mg/L (Daphnia Magna)

13. DISPOSAL CONSIDERATIONS

MATERIAL SAFETY DATA SHEET

Date Issued: 09/12/2008
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Revision No: 3

Blue Wave Blitz for Spas

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Solid, Acidic, Inorganic, N.O.S. (monopersulfate compound)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 3260

PACKING GROUP: II

LABEL: Corrosive

OTHER SHIPPING INFORMATION: DOT exception 173.154 - this product qualifies as a Limited Quantity when inner packaging does not exceed 2.2 lbs and outer packaging does not exceed 66 lbs.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not listed.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Magnesium Carbonate	546-93-0
Potassium Bisulfate	7646-93-7
Potassium Peroxydisulfate	7727-21-1
Potassium Peroxymonosulfate	10058-23-8
Potassium Sulfate	7778-80-5

16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 10/15/2008 MSDS. Revised: **Section 14:** DOT (DEPARTMENT OF TRANSPORTATION) - LABEL.

MATERIAL SAFETY DATA SHEET

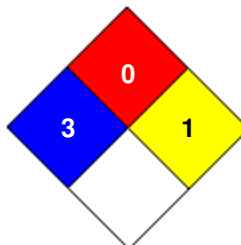
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Blue Wave Blitz for Spas

HMIS RATING

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

NFPA CODES



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