

# MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile &amp; Liner Cleaner

Date Revised: 09/11/2008

Revision No: 1

## Blue Wave Tile & Liner Cleaner

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Blue Wave Tile & Liner Cleaner  
**GENERAL USE:** Tile & liner cleaner.

#### DISTRIBUTOR

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

**Product Stewardship:** (800) 759-0977

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Corrosive. Causes severe irritation and burns to eyes and skin.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Contact causes severe eye irritation, watering and redness. Can cause burns to the eyes.

**SKIN:** Contact causes severe skin irritation and possible burns.

**INGESTION:** Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat and stomach.

**INHALATION:** Inhalation is not expected to be a hazard unless misted or heated to high temperatures. Mist or vapor inhalation can cause irritation to the nose, throat and upper respiratory tract.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Phosphoric Acid	10 - 15	007664-38-2	231-633-2
0			

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with copious amounts of water for at least 15 minutes, while lifting upper and lower eyelids occasionally. 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.

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**INGESTION:** Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**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:** Not Flammable

**FLAMMABLE LIMITS:** 0 to 0

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

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear. Water can be used to cool and protect exposed material.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in a chemical waste container. Do not use saw dust. Do not flush to sewer.

### 7. HANDLING AND STORAGE

**HANDLING:** Keep containers tightly closed. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, incompatibilities, and direct sunlight. Corrosive to mild steel. Protect from freezing. Containers may be hazardous when empty since they may retain product residues.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Phosphoric Acid	TWA	ppm <sup>[1]</sup>	1 mg/m <sup>3</sup> <sup>[1]</sup>	ppm	1 mg/m <sup>3</sup>	NL	NL
	STEL	ppm	mg/m <sup>3</sup>	ppm	3 mg/m <sup>3</sup>	NL	NL
<b>Footnotes:</b> 1. NL = Not Listed							

**ENGINEERING CONTROLS:** Local exhaust.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield if splashing is possible.

**SKIN:** Impervious gloves.

**RESPIRATORY:** For product manufacturing or emergency situations, wear an OSHA-NIOSH approved full facepiece respirator equipped with chemical cartridge.

**PROTECTIVE CLOTHING:** Impervious clothing to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Freezing Point (°C)	Specific Gravity
Phosphoric Acid	11	22	33	44

**PHYSICAL STATE:** Liquid

**ODOR:** None.

**APPEARANCE:** Blue liquid.

**pH:** < 1.0

**VAPOR PRESSURE:** Not Available

**VAPOR DENSITY:** Not Available

**FLASHPOINT AND METHOD:** Not Flammable

**SOLUBILITY IN WATER:** Miscible

**SPECIFIC GRAVITY:** 1.100

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(VOC): 10.000

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable when handled and stored as indicated.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Phosphorous oxides may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Phosphoric acid liberates explosive hydrogen gas when reacting with chlorides and stainless steel. Can react violently with sodium tetrahydroborate. Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, arbamates, esters, caustics, phenols, ketenes, organophosphates, opoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. Phosphoric acid forms flammable gases with sulfides, mercaptans, cyanides and aldehydes. It also forms toxic fumes with cyanides, sulfide, fluorides, organic peroxides, and halogenated organics.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**ORAL LD<sub>50</sub>:** 1530 mg/kg (rat)

**Notes:** Phosphoric Acid: Investigated as a mutagen.

### 12. ECOLOGICAL INFORMATION

**COMMENTS:** When released into the soil this material may leach into groundwater. When released to water, acidity may be readily reduced by natural water hardness minerals. The phosphate may persist indefinitely.

### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquid, N.O.S. (Phosphoric Acid)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 1760

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**PACKING GROUP:** III

**OTHER SHIPPING INFORMATION:** DOT exception 173.154 - this product qualifies as a Consumer Commodity (ORM-D) when inner packaging does not exceed 1 gallons.

### 15. REGULATORY INFORMATION

#### UNITED STATES

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

Chemical Name	Wt.%	CERCLA RQ
Phosphoric Acid	10 - 15	5,000 lbs.

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

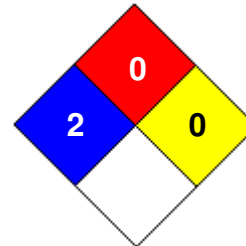
Chemical Name	CAS
Phosphoric Acid	007664-38-2

**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.

### 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the June 23, 2008 MSDS.

#### NFPA CODES



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