

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile & 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.

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile & Liner Cleaner

Date Revised: 09/11/2008

Revision No: 1

Blue Wave Tile & Liner Cleaner

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

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile & Liner Cleaner

Date Revised: 09/11/2008

Revision No: 1

Blue Wave Tile & Liner Cleaner

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Phosphoric Acid	TWA	ppm ^[1]	1 mg/m ³ ^[1]	ppm	1 mg/m ³	NL	NL
	STEL	ppm	mg/m ³	ppm	3 mg/m ³	NL	NL
Footnotes: 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

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile & Liner Cleaner

Date Revised: 09/11/2008

Revision No: 1

Blue Wave Tile & Liner Cleaner

(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 LD₅₀: 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

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008

MSDS No: Blue Wave Tile & Liner Cleaner

Date Revised: 09/11/2008

Revision No: 1

Blue Wave Tile & Liner Cleaner

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)

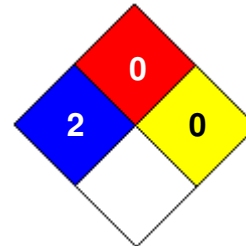
Chemical Name	CAS
Phosphoric Acid	007664-38-2

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



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).