

MATERIAL SAFETY DATA SHEET

BOND 5004

Material Identification and Use

EFFECTIVE DATE..... 1/25/06 (Last Revision N/A)

MANUFACTURED FOR BOND WATER TECHNOLOGIES, INC.
ADDRESS 630 E. Diamond Avenue – Suite J/K, Gaithersburg, MD 20877
PHONE (301) 721-BOND
EMERGENCY PHONE NUMBER (800) 424-9300 CHEMTREC

DOT SHIPPING NAME Sodium Hydroxide Solution, 8, UN1824, PGII
HAZARD CLASS Corrosive Liquid
UN NUMBER UN1824

PRODUCT USE This product is designed for use in industrial, commercial or institutional water treatment systems. This product is not for use in potable water systems.

Hazardous Ingredients

HAZARDOUS INGREDIENTS	PERCENT (%)	TLV (Units)	CAS NUMBER
2-Phosphonobutane-1,2,4- tricarboxylic acid	10-20	NE	37971-36-1
Sodium Hydroxide	8-12	2 ppm	1310-73-2

Physical Data

PHYSICAL STATE Liquid
BOILING POINT NE
MELTING POINT NE
FREEZING POINT NE
VAPOR PRESSURE NE
VAPOR DENSITY (air=1)..... NE
EVAPORATION RATE..... NE
SOLUBILITY IN H₂O Complete
VOLATILITY/VOL(%) NE
pH 12.9
SPECIFIC GRAVITY 1.131
DENSITY (g/ml) NE
ODOR AND APPEARANCE Amber liquid; slight odor.

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Fire and Explosion Hazard Data

FLASHPOINT AND METHOD OF DETERMINATIONNone
AUTO-IGNITION TEMPERATURE.....NA
UPPER EXPLOSION LIMIT(% BY VOL)NA
LOWER EXPLOSION LIMIT(% BY VOL)NA
MEANS OF EXTINGUISHMENT In case of fire use water spray, foam, dry chemical or CO₂.
HAZARDOUS COMBUSTION PRODUCTS..... None known
SPECIAL FIREFIGHTING PROCEDURES..... Wear protective clothing when fighting fires.
UNUSUAL FIRE AND EXPLOSION DATA..... Adding water may generate heat.

Reactivity Data

CHEMICAL STABILITYStable
HAZARDOUS POLYMERIZATION Will not occur
INCOMPATIBLE MATERIALS.....Strong Acids.
HAZARDOUS DECOMPOSITION PRODUCTSNone known
CONDITIONS OF REACTIVITYNA

Health Hazard Data

ROUTES OF ENTRY
BY EYE CONTACTPossible
BY SKIN CONTACT.....Possible
BY SKIN ABSORPTIONNA
BY INHALATIONPossible
BY INGESTIONPossible
TLV (UNITS)NE
ACUTE OVER EXPOSURE EFFECTSEye irritant. Risk of serious damage of eyes. Skin irritant.
CHRONIC OVER EXPOSURE EFFECTSNE

CARCINOGENIC ACCORDING TO THE FOLLOWING:

NTP?No
IARC MONOGRAPHS?No
OSHA REGULATEDNo
OTHER.....

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First Aid Measures

SPECIFIC FIRST AID PROCEDURES Flush eyes with abundant water. Consult a physician. Promptly remove contaminated clothes. Wash skin with soap and water. If irritation persists, consult a physician. In case of discomfort by vapors or dusts, move to a ventilated area. If irritation persists, consult a physician. If ingested, give water. Do not induce vomiting. Call a physician.

Preventive Measures

LEAK AND SPILL PROCEDURES Contain the spill and absorb with an inert material. Collect.
WASTE DISPOSAL Dispose of contaminated product via an approved chemical waste disposal firm and in accordance with all federal, state and local regulations.
HANDLING PROCEDURES AND EQUIPMENT..... Wear a face shield and avoid all skin contact. Handle an open container with care.
STORAGE REQUIREMENTS Store in a tightly sealed container. Store in a cool, dry and well-ventilated area.

Control Measures

RESPIRATORY PROTECTION No specific requirement
VENTILATION
 LOCAL EXHAUST Adequate
 MECHANICAL EXHAUST NA
 OTHER.....
PROTECTIVE GLOVES Wear suitable gloves.
EYE PROTECTION..... Wear eye/face protection.
OTHER PROTECTIVE EQUIPMENT..... Wear suitable protective clothing.

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Regulatory Information

HAZARD RATING:		HAZARD RATING SCALE:	
Health:	1	0=Minimal	3=Serious
Fire:	0	1=Slight	4=Severe
Reactivity:	2	2=Moderate	
Special Warning:			

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III

Ingredients covered under the following sections:

CERCLA Hazardous Substance - Sodium Hydroxide RQ = 1000 lbs.

SARA Toxic Chemical - SECTION 313: None

OTHER

IN ACCORDANCE WITH VARIOUS STATE (U.S.) REGULATIONS THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL INGREDIENTS:

INGREDIENTS	CAS NUMBER
2-Phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1
Sodium Hydroxide	1310-73-2
Polymer Blend	UN
Sodium Tolyltriazole	64665-57-2

Preparation Information

PREPARED BYPTD
PHONE NUMBER OF PREPARER.....(301) 721-BOND

DISCLAIMER:

The above information and recommendations are accurate to the best of our knowledge. However, the company assumes no liability for the accuracy or completeness of the information contained herein and disclaims all liability for the reliance thereon. All chemicals present unknown health hazards and should be used with caution. The user should satisfy himself by independent investigation that he has all current data relevant to his particular use.

UN-Unavailable NA-Not Applicable NE-Not Established