

**MATERIAL SAFETY DATA SHEET**

**BOND 5009**

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**Material Identification and Use**

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EFFECTIVE DATE.....8/16/06 (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 .....Potassium Hydroxide Solution, 8, UN1814, PGII  
HAZARD CLASS .....Corrosive Liquid  
UN NUMBER .....UN1814

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.

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**Hazardous Ingredients**

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HAZARDOUS INGREDIENTS	PERCENT (%)	TLV (Units)	CAS NUMBER
2-Phosphonobutane-1,2,4- tricarboxylic acid	10-20	NE	37971-36-1
Potassium Hydroxide	10-20	2 mg/M <sup>3</sup>	1310-58-3

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**Physical Data**

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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 H<sub>2</sub>O .....Complete  
VOLATILITY/VOL(%) .....NE  
pH .....13.8  
SPECIFIC GRAVITY .....1.20  
DENSITY (g/ml) .....NE  
ODOR AND APPEARANCE .....Amber to brown liquid, slight odor..

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**Fire and Explosion Hazard Data**

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FLASHPOINT AND METHOD OF DETERMINATION .....None  
AUTO-IGNITION TEMPERATURE.....NA  
UPPER EXPLOSION LIMIT(% BY VOL) .....NA  
LOWER EXPLOSION LIMIT(% BY VOL) .....NA  
MEANS OF EXTINCTION ..... In case of fire use water spray, foam, dry chemical or CO<sub>2</sub>.  
HAZARDOUS COMBUSTION PRODUCTS..... None known  
SPECIAL FIREFIGHTING PROCEDURES..... Wear protective clothing when fighting fires.  
UNUSUAL FIRE AND EXPLOSION DATA..... Adding water may generate heat.

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**Reactivity Data**

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CHEMICAL STABILITY .....Stable  
HAZARDOUS POLYMERIZATION ..... Will not occur  
INCOMPATIBLE MATERIALS .....Strong Acids.  
HAZARDOUS DECOMPOSITION PRODUCTS .....None known  
CONDITIONS OF REACTIVITY .....NA

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**Health Hazard Data**

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ROUTES OF ENTRY  
BY EYE CONTACT .....Possible  
BY SKIN CONTACT.....Possible  
BY SKIN ABSORPTION .....NA  
BY INHALATION .....Possible  
BY INGESTION .....Possible  
TLV (UNITS) .....NE  
ACUTE OVER EXPOSURE EFFECTS .....Eye irritant. Risk of serious damage of eyes. Skin irritant.  
CHRONIC OVER EXPOSURE EFFECTS .....NE

**CARCINOGENIC ACCORDING TO THE FOLLOWING:**

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

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**First Aid Measures**

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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.

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**Preventive Measures**

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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.

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**Control Measures**

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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.

