

## MATERIAL SAFETY DATA SHEET

### BOND 3056

#### Material Identification and Use

EFFECTIVE DATE..... 3-17-99

MANUFACTURER'S NAME..... BOND WATER TECHNOLOGIES, INC.

MANUFACTURER'S ADDRESS..... 630 E. Diamond Avenue, Suite J/K, Gaithersburg, MD 20877

MANUFACTURER'S PHONE ..... (301) 721-BOND

EMERGENCY PHONE NUMBER..... (800) 424-9300 CHEMTREC

DOT SHIPPING NAME ..... NA

HAZARD CLASS..... Non-hazardous (liquid)

UN NUMBER..... NA

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
Cyclohexylamine	22-26	10 ppm	108-91-8

#### Physical Data

PHYSICAL STATE..... LIQUID

BOILING POINT ..... NE

MELTING POINT..... NE

FREEZING POINT ..... NE

VAPOUR PRESSURE ..... NE

VAPOUR DENSITY (air=1) ..... NE

EVAPORATION RATE ..... NE

SOLUBILITY IN H2O ..... COMPLETE

VOLATILITY/VOL(%)..... NE

pH ..... 11.92

SPECIFIC GRAVITY..... 0.975

DENSITY (g/ml) ..... NE

ODOUR AND APPEARANCE..... CLEAR LIQUID, STRONG AMINE ODOR

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### Fire and Explosion Hazard Data

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 CO2.
HAZARDOUS COMBUSTION PRODUCTS .....	Thermal decomposition products include carbon monoxide, carbon dioxide, and nitrogen oxides.
SPECIAL FIREFIGHTING PROCEEDURES.....	Wear self-contained breathing apparatus if fighting fires near this product due to thermal decomposition products.
UNUSUAL FIRE AND EXPLOSION DATA .....	None

### Reactivity Data

CHEMICAL STABILITY.....	Stable
HAZARDOUS POLYMERIZATION.....	Will not occur
INCOMPATIBLE MATERIALS .....	Reaction with strong acids or strong oxidizers may generate heat or dangerous fumes.
HAZARDOUS DECOMPOSITION PRODUCTS .....	Thermal decomposition products include carbon monoxide, carbon dioxide and nitrogen oxides.
CONDITIONS OF REACTIVITY .....	KEEP AWAY FROM SOURCES OF IGNITION -- NO SMOKING.

### Health Hazard Data

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.....	RISK OF SERIOUS DAMAGE OF EYES. MAY CAUSE BLINDNESS. SKIN IRRITANT. LUNG 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

SPECIFIC FIRST AID PROCEDURES ..... FLUSH EYES WITH ABUNDANT WATER. CONSULT A PHYSICIAN. REMOVE PROMPTLY CONTAMINATED CLOTHES. FLUSH SKIN WITH WATER. IN CASE OF DISCOMFORT BY VAPORS, MOVE TO A VENTILATED AREA. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION. GIVE OXYGEN. KEEP WARM AND CALL A PHYSICIAN. IF INGESTED, GIVE WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

### Preventive Measures

LEAK AND SPILL PROCEDURES ..... ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH 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 SUITABLE PROTECTIVE CLOTHING.

STORAGE REQUIREMENTS ..... STORE IN A TIGHTLY SEALED CONTAINER. STORE IN A COOL AND DRY AREA, AWAY FROM ALL SOURCES OF IGNITION.

### Control Measures

RESPIRATORY PROTECTION..... VENTILATE ADEQUATELY, OTHERWISE WEAR AN APPROPRIATE BREATHING APPARATUS.

VENTILATION

LOCAL EXHAUST .....Adequate

MECHANICAL EXHAUST.....Recommended

OTHER.....

PROTECTIVE GLOVES..... WEAR SUITABLE GLOVES.

EYE PROTECTION..... WEAR EYE/FACE PROTECTION. AVOID SPLASHES.

OTHER PROTECTIVE EQUIPMENT ..... WEAR SUITABLE PROTECTIVE CLOTHING.

### Regulatory Information

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

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

Ingredients covered under the following sections:

CERCLA Hazardous Substance - SECTION 304: .....Cyclohexylamine, RQ= 10,000 lb

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
Cyclohexylamine	108-91-8

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## Preparation Information

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

### DISCLAIMER:

The above information and recommendations are believed to be accurate to the best of our knowledge. However, BOND WATER TECHNOLOGIES, INC. 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 relevent to his particular use.

UN - Unavailable NA - Not Applicable NE - Not Established