BOND 3055

Material Identification and Use				
EFFECTIVE DATE	3-17-99			
DOT SHIPPING NAMEHAZARD CLASSUN NUMBER	Not Regulated			
PRODUCT USE	COMMERCIAL C	OR INSTITUTIONAL WAT S PRODUCT IS NOT FOR U	ER TREATMENT	
	Hazardous Ingredients			
HAZARDOUS INGREDIENTS	PERCENT (%)	TLV (Units)	CAS NUMBER	
Morpholine Diethylaminoethanol	1-10 1-10	20 ppm 10 ppm	110-91-8 100-37-8	
	Physical Data			
PHYSICAL STATE BOILING POINT MELTING POINT FREEZING POINT VAPOUR PRESSURE VAPOUR DENSITY (air=1) EVAPORATION RATE SOLUBILITY IN H20 VOLATILITY/VOL(%) pH SPECIFIC GRAVITY DENSITY (g/ml). ODOUR AND APPEARANCE		STRONG AMINE ODOR		

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Fire and Ex	xplosion Hazard Data			
FLASHPOINT AND METHOD OF DETERMINATION	NE			
AUTO-IGNITION TEMPERATURE	NE			
UPPER EXPLOSION LIMIT(% BY VOL)	NE			
LOWER EXPLOSION LIMIT(% BY VOL)	NE			
	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	Self-contained breathing apparatus may be necessary due to			
	irritation and toxicity of vapors and/or combustion products.			
UNUSUAL FIRE AND EXPLOSION DATA	Vapors may be heavier than air.			
	•			
Re	activity Data			
CHEMICAL STABILITY	Stable			
HAZARDOUS POLYMERIZATION				
INCOMPATIBLE MATERIALS				
	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				
BY INHALATION	Possible			
BY INGESTION	Possible			
TLV (UNITS)				
ACUTE OVER EXPOSURE EFFECTS				
	BLINDNESS. SKIN IRRITANT. LUNG IRRITANT.			
CHRONIC OVER EXPOSURE EFFECTS				
CARCINOGENIC ACCORDING TO THE FOLLOWING:				
NTP?	No			
IARC MONOGRAPHS?				
OSHA REGULATED				
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. IN CASE OF INGESTION, GIVE PLENTY OF WATER. INDUCE VOMITING IF POSSIBLE. CALL A PHYSICIAN.			
	Preventive Measures			
LEAK AND SPILL PROCEDURES	ELIMINATE ALL SOURCES OF IGNITION. ABSORB WITH			
WASTE DISPOSAL	INERT MATERIAL. COLLECT DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.			
	Control Measures			
RESPIRATORY PROTECTION VENTILATION				
LOCAL EXHAUST MECHANICAL EXHAUST OTHER	Recommended			
PROTECTIVE GLOVES				
I	Regulatory Information			
HAZARD RATING:	HAZARD RATING SCALE:			
Health: 2 Fire: 2 Reactivity: 0 Special Warning:	0=Minimal 3=Serious 1=Slight 4=Severe 2=Moderate			
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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:	None
	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

Morpholine 110-91-8 Diethylaminoethanol 100-37-8

Preparation Information

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

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