

## MATERIAL SAFETY DATA SHEET

<b>PRODUCT INFORMATION</b>		<b>Aquamine 404</b>			
Product Name:	Aquamine 404				
General/Generic Name:	AMINES				
Product Use:	TO TREAT CONDENSATE				
TDG Hazard Classification:	AMINES LIQUID, CORROSIVE N.O.S. (MORPHOLINE) UN 2735, CLASS 8, PKG GRP III				
WHMIS Classification:	D,2B;E;B3				
<b>Vendor Name and Address:</b> Alliance Water Group INC. 1 Yonge Street Suite# 1801 Toronto, ON M5E 1W7 416-306-2480 24 HOUR EMERGENCY PHONE NUMBER CANUTEC 613-996-6666					
<b>HAZARDOUS INGREDIENTS</b>					
<u>Ingredient</u>	<u>%W/W</u>	<u>TLV</u>	<u>CAS.NO.</u>	<u>LD50</u>	<u>LC50</u>
MORPHOLINE	10-30	2mg/m3	110-91-8	156mg/Kg (ORAL RAT)	ND
CYCLOHEXYLAMINE	10-30	2mg/m3	108-91-8	1910mg/Kg (ORAL RAT)	ND
DIETHYLAMINOETHANOL	10-30	2mg/m3	100-37-8	1320mg/Kg (ORAL RAT)	ND
<b>PHYSICAL DATA</b>			<b>PREVENTIVE MEASURES</b>		
Physical State:	LIQUID		Protective Equipment Required:	YES	
Appearance & Odour:	COLOURLESS LIQUID, AMINE ODOUR		Respiratory Protection:	APPROVED RESPIRATOR WHERE TLV IS EXCEEDED	
Odour Threshold:	ND		Ventilation:	LOCAL EXHAUST PREFERRED	
Specific Gravity:	0.94		Protective Gloves:	IMPERMEABLE FOR CHEMICAL HANDLING	
Vapour Pressure:	28 MM		Eye Protection:	FACE SHIELD, CHEMICAL SAFETY GOGGLES	
Vapour Density:	2g/LITRE		Other Protective Measures:	IMPERMEABLE BOOTS AND APRON RECOMMENDED, PROTECTIVE CLOTHING	
pH:	12.5				
Evaporation Rate:	SAME AS WATER				
Initial Boiling Point:	98° C				
Water Solubility:	COMPLETE				
Freezing Point:	<0 °C				
<b>REACTIVITY DATA</b>			<b>FIRST AID MEASURES</b>		
Stability:	STABLE		Skin Contact:	RINSE AFFECTED AREA WITH PLENTY OF POTABLE WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING/FOOTWEAR. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.	
Incompatibility:	ACIDS		Eye Contact:	RINSE EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, MAKING SURE TO GET UNDER THE UPPER AND LOWER EYELIDS. IF APPLICABLE, REMOVE CONTACT LENSES AFTER 5 MINUTES AND CONTINUE TO FLUSH EYE AFTER REMOVAL. GET MEDICAL ATTENTION IMMEDIATELY.	
Hazardous Decomposition Products:	OXIDES OF CARBON AND NITROGEN		Inhalation:	REMOVE TO FRESH AIR. ASSIST IN BREATHING IF NECESSARY. GET MEDICAL ATTENTION IMMEDIATELY.	
Hazardous Polymerization:	NONE		Ingestion:	DO NOT INDUCE VOMITING. GIVE PLENTY OF WATER OR MILK. NEVER GIVE ANYTHING BY MOUTH TO A CONVULSING OR UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.	
Conditions to Avoid:	HEAT OR OPEN FLAME				
<b>TOXICOLOGICAL PROPERTIES</b>					
Threshold Limit Value:	ND				
Effects of Acute Exposure:	SEVERE TISSUE BURNS				
Skin Contact:	SEVERE TISSUE BURNS				
Skin Absorption:	NA				
Eye Contact:	CORROSIVE, WILL CAUSE BURNS				
Inhalation:	BURNS TO MUCOUS MEMBRANES				
Ingestion:	G.I. TRACT BURNS				
Effect of Chronic Exposure:	NA				
Irritancy of Product:	SEVERE HAZARD TO SKIN AND EYES				
Carcinogenicity:	ND				
Sensitization to Material:	NONE				
Reproduction Toxicity:	ND				
Teratogenicity:	ND				
Mutagenicity:	ND				
<b>FIRE OR EXPLOSION HAZARD</b>					
Flash Point:	130° F				
Flammable Limits:	ND				
Auto-Ignition Temp:	ND				
Extinguishing Media:	FOAM, WATER, CO2				
Special Firefighting Procedure:	CONTAINERS MAY EXPLODE IF HEATED				
Explosion Data:	ND				
Hazardous Combustion Products:	OXIDES OF CARBON AND NITROGEN				
<b>SPILL OR LEAK PROCEDURES</b>					
Steps To Be Taken In Case Material Is Released or Spilled:	CONTAIN SPILL, ABSORB ONTO INERT MATERIAL. WEAR ALL APPLICABLE PROTECTIVE CLOTHING. KEEP UNPROTECTED PERSONNEL AWAY FROM SPILL.				
Waste Disposal Information:	DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL AND FEDERAL GOVERNMENT REGULATIONS.				
<b>PREPARATION INFORMATION</b>					
Date Prepared:	March 9, 2003	Date Revised:	July 14, 2016		
Prepared By:	Lab Personnel	NA Not Applicable	ND No Data Available		
Phone:	(416)306-2480	NE None Established	NR Not Regulated		

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