

MATERIAL SAFETY DATA SHEET

OS1257

SECTION 1:

IDENTIFICATION

Company Name:	QUALICHEM TECHNOLOGIES
Address:	885 WOODSTOCK RD, STE 430-111 ROSWELL, GA 30075
Phone No.	(800) 658-7716
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Emergency Phone No.	CHEM-TEL 800-255-3924
Date Prepared:	6/1/01
Date Revised:	5/8/09

SECTION 2:

INGREDIENTS

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>
DIETHYLHYDROXYLAMINE	3710-84-7	15 - 25

SECTION 3:

HEALTH HAZARDS

Ingestion:	MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY.
Inhalation:	HIGH VAPOR CONCENTRATIONS MAY BE IRRITATING TO THE RESPIRATORY TRACT.
Skin Contact:	CONTACT MAY CAUSE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
Eye Contact:	CONTACT MAY CAUSE IRRITATION.
Other Information:	OTHER THAN ACUTE EFFECTS LISTED ABOVE, NO LONG TERM EFFECTS KNOWN.

SECTION 4:

FIRST AID

Ingestion:	DRINK SEVERAL GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.
Inhalation:	REMOVE VICTIM TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF AVAILABLE. GET MEDICAL ATTENTION.
Skin Contact:	WASH WITH PLAIN WATER OR SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION.
Eye Contact:	IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES WHILE HOLDING EYELIDS APART. GET MEDICAL ATTENTION.

SECTION 5:

FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method:	CLOSED CUP >120°F
Upper/Lower Limit in Air:	N.D./N.D.
Limit in Air:	WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE.
Extinguishing Media:	FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT.
Procedures:	SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN CONFINED AREAS.
Unusual Hazards:	NONE
Combustion Products:	IF WATER IS EVAPORATED, OXIDES OF CARBON AND NITROGEN MAY BE PRODUCED.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT AS RECOMMENDED IN SECTION 8. EXTINGUISH OR TURN OFF ALL IGNITION SOURCES.
Environmental Precautions:	THIS PRODUCT HAS A MODERATE HAZARD POTENTIAL IF RELEASED INTO THE ENVIRONMENT ACCIDENTLY. AMINES ARE CHEMICALLY AND BIOLOGICALLY DEGRADABLE.
Procedures for Clean Up:	SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER, PREFERABLY TO A SANITARY SEWER. LARGER SPILLS MAY BE DIKED TO MINIMIZE RUN-OFF AND NEUTRALIZED WITH DILUTE ACID. LIQUID MAY BE ABSORBED IN SAWDUST OR ANY AVAILABLE ABSORBANT AND SWEEPINGS DISPOSED OF IN A LANDFILL. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.
Prohibited Materials:	NONE

SECTION 7: HANDLING AND STORAGE

Handling:	WEAR INDICATED PROTECTIVE EQUIPMENT WHEN HANDLING THE UNDILUTED MATERIAL. KEEP AWAY FROM SOURCES OF IGNITION.
Storage:	KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE AWAY FROM SOURCES OF IGNITION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary Measures:	STANDARD INDUSTRIAL HANDLING PRECAUTIONS. WASH THOROUGHLY AFTER HANDLING CHEMICALS.
Engineering Controls:	USE WITH ADEQUATE VENTILATION TO KEEP EXPOSURES BELOW OCCUPATIONAL EXPOSURE LIMITS.
Control Limits:	NONE
Equipment for Personal Protection:	WEAR CHEMICAL SAFETY GLASSES, GOGGLES, OR FACE SHIELD, AND PROTECTIVE GLOVES AND CLOTHING. EYEWASH STATION AND SAFETY SHOWER IN AREA OF USE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	COLORLESS TO LIGHT YELLOW LIQUID
Odor:	TYPICAL AMINES
pH (undiluted):	<12.5
Specific Gravity:	0.98 - 1.00
Density:	8.3 lbs./gal.
Solubility in Water:	COMPLETE
Boiling Point:	>212°F
Percent Volatile:	100
Vapor Pressure (mmHg):	N.D.
Vapor Density:	N.D.
Evaporation Rate:	(water=1): ~1

SECTION 10: STABILITY AND REACTIVITY

Stability:	STABLE
Conditions to Avoid:	NONE
Hazardous Polymerization:	STABLE
Conditions to Avoid:	NONE
Incompatibility:	REACTS VIOLENTLY WITH STRONG OXIDIZING AGENTS OR ACIDS.
Hazardous Decomposition Products:	IF WATER EVAPORATED, OXIDES OF CARBON & NITROGEN WILL BE PRODUCED BY COMBUSTION.

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SECTION 11: TOXICOLOGICAL INFORMATION

Material & Tests:	ORAL LD ₅₀ (RATS); DIETHYDROXYLAMINE 2190 mg/kg. DERMAL LD ₅₀ (RABBITS): DIETHYLHYDROXYLAMINE 1300 mg/kg. INHALATION LC ₅₀ (RAT): DIETHYLHYDROXYLAMINE 3140 ppm/4Hr.
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SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:	DIETHYLHYDROXYLAMINE: 96 Hr. LC ₅₀ (GUPPIES) = 150 mg/l; 48 Hr. EC ₅₀ (DAPHNIA MAGNA) = 111 mg/l; EC ₅₀ (PSEUDOMONAS) = 37 mg/l.
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SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations: Procedures:	THIS PRODUCT IS NOT A HAZARDOUS WASTE. DISPOSAL BY USE PREFERRED BUT IF THIS NOT POSSIBLE, DILUTE WITH COPIOUS QUANTITIES OF WATER, NEUTRALIZE WITH DILUTE ACID AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. HOWEVER, OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.
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SECTION 14: TRANSPORT INFORMATION

Shipping Name:	COMBUSTIBLE LIQUID, N.O.S. (ALKYLAMINES)
Primary Hazard Class:	COMBUSTIBLE
Identification No.:	NA1993
Packing Group:	III
2004 NAERG No.:	128

SECTION 15: REGULATORY INFORMATION

<u>Regulation</u>	<u>Material</u>	<u>RQ</u>	<u>Max. %</u>
CERCLA (40 CFR302.4):	NONE		
SARA 302 (Sect. 355, Appendix A):	<u>Material</u>	<u>TPQ</u>	<u>Max. %</u>
SARA 311/312:	<u>Categories</u>		<u>Hazards</u>
	IMMEDIATE HEALTH, FIRE		EYE, SKIN CORROSIVE
SARA 313 (40 CFR 372.45):	<u>Material</u>		<u>Max. %</u>
CWA (40 CFR 401.15):	NONE		
RCRA (40 CFR 261):	NONE		
OSHA (29 CFR 1910.1200):	ALL COMPONENTS LISTED UNDER THIS STANDARD ARE SHOWN IN SECTION 2 OF THIS MSDS.		
TSCA:	ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY.		

SPECIAL STATE REGULATIONS

<u>STATE</u>	<u>INGREDIENT</u>	<u>%</u>	<u>REGULATORY DESIGNATION</u>
NONE			

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SECTION 16 OTHER INFORMATION

SUGGESTED HAZARD RATINGS

<u>NFPA*</u>	<u>HAZARD</u>	<u>HMS*</u>
2	HEALTH (Blue)	2
2	FIRE (Red)	2
0	REACTIVITY (Yellow)	0
	PERSONAL PROTECTION	D
	SPECIAL HAZARDS	

*Notes: 0 = Insignificant; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme

The data contained in this Material Safety Data Sheet has been prepared based upon an evaluation of the ingredients in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is prohibited by law.