

MATERIAL SAFETY DATA SHEET

ST1238

SECTION 1:

IDENTIFICATION

Company Name:	QUALICHEM TECHNOLOGIES
Address:	885 WOODSTOCK RD, STE 430-111 ROSWELL, GA 30075
Phone No.	(800) 658-7716
Fax No.	(877) 209-1556
Emergency Phone No.	CHEM-TEL 800-255-3924
Date Prepared:	12/11/08
Date Revised:	5/11/09

SECTION 2:

INGREDIENTS

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>
DIETHYLAMINOETHANOL	100-37-8	30 - 50

SECTION 3:

HEALTH HAZARDS

Ingestion:	MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY. DUE TO HIGH ALKALINITY, CAUSES SEVERE IRRITATION, POSSIBLE BURNS OF INTERNAL TISSUES.
Inhalation:	INHALATION HIGHLY IRRITATING TO RESPIRATORY TRACT. SEVERE INHALATION MAY PRODUCE CHEMICAL PNEUMONITIS, PULMONARY EDEMA AND DELAYED SCARRING OF THE AIRWAY OR OTHER AFFECTED ORGANS.
Skin Contact:	CONTACT CAUSES SEVERE IRRITATION AND POSSIBLE BURNS.
Eye Contact:	CAUSES SEVERE IRRITATION, POSSIBLE BURNS AND EYE DAMAGE.
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. GET IMMEDIATE 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. IF BURNS OCCUR, COVER THE AFFECTED AREA WITH STERILE DRESSING OR CLEAN SHEETING AND GET MEDICAL ATTENTION. DO NOT APPLY GREASES OR OINTMENTS.
Eye Contact:	IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES WHILE HOLDING EYELIDS APART. GET MEDICAL ATTENTION.
Notes to Physician:	THIS PRODUCT PRODUCES EFFECTS SIMILAR TO THOSE OF AMMONIA AND IS HIGHLY INJUROUS TO ALL TISSUES. TREAT SYMPTOMS WITH SUPPORTIVE MEASURES WHICH WILL BE SIMILAR TO THAT FOR THERMAL BURNS.

SECTION 5:

FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method:	CLOSED CUP >130°F
Upper/Lower Limit in Air:	N.D./N.D.
Extinguishing Media:	WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE. FIRE-FIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN CONFINED AREAS.
Procedures:	
Unusual Hazards:	NONE
Combustion Products:	IF WATER IS EVAPORATED, OXIDES OF CARBON AND NITROGEN MAY BE PRODUCED.

MATERIAL SAFETY DATA SHEET

ST1238

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Environmental Precautions:	WEAR PERSONAL PROTECTIVE EQUIPMENT AS RECOMMENDED IN SECTION 8. 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:	THIS PRODUCT IS A STRONG ALKALINE MATERIAL. WEAR INDICATED PROTECTIVE EQUIPMENT WHEN HANDLING THE UNDILUTED MATERIAL.
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:	DIETHYLAMINOETHANOL: OSHA (PEL) = 10 ppm (TWA); ACGIH (TLV) = 10 ppm (TWA)
Equipment for Personal Protection:	SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES, IMPERMEABLE GLOVES, AND PROTECTIVE CLOTHING SHOULD BE WORN WHEN HANDLING THE CONCENTRATED PRODUCT. EYEWASH STATION IN AREA OF USE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CLEAR LIQUID
Odor:	TYPICAL AMINES
pH (undiluted):	<12.5
Specific Gravity:	0.96 - 0.98
Density:	8.1 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 AND NITROGEN WILL BE PRODUCED BY COMBUSTION.

SECTION 11: TOXICOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET

ST1238

Material & Tests:	DIETHYLAMINOETHANOL: ORAL LD50 (RATS) = 1300 mg/kg; DERMAL LD50 (RABBITS) = 1100 mg/kg; INHALATION LC50 (MOUSE) = 1320 mg/kg.
-------------------	---

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:	DIETHYLAMINOETHANOL: 24 Hr LC50 (DAPHNIA MAGNA) = 180 mg/l; 96 Hr. EC50 (FATHEAD MINNOW) = 1,780 mg/l; 96 Hr. LC50 (LEUCISCUS IDUS) = 100-220 mg/l; 72 Hr EC50 (ALGAE) = 30 mg/l.
-------------------	---

SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations: Procedures:	THIS PRODUCT WOULD NOT BE CONSIDERED 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.
--	---

SECTION 14: TRANSPORT INFORMATION

Shipping Name:	COMBUSTIBLE LIQUID, N.O.S. (DIETHYLAMINOETHANOL)
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		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

STATE	INGREDIENT	%	REGULATORY DESIGNATION
NONE			

SECTION 16 OTHER INFORMATION

MATERIAL SAFETY DATA SHEET

ST1238

SUGGESTED HAZARD RATINGS

<u>NFPA*</u>	<u>HAZARD</u>	<u>HMIS*</u>
3	HEALTH (Blue)	3
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.