# MATERIAL SAFETY DATA SHEET ST1258

SECTION 1: IDENTIFICATION

Company Name: | QUALICHEM TECHNOLOGIES

Address: 885 WOODSTOCK RD, STE 430-111

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Emergency Phone No. | CHEM-TEL 800-255-3924

Date Prepared: 12/11/08
Date Revised: 5/11/09

SECTION 2: INGREDIENTS

 MATERIAL
 CAS NO.
 %

 CYCLOHEXYLAMINE
 108-91-8
 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 PNEUMONTITIS, 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 AFFECTS

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 >125°F

Upper/Lower Limit in Air: N.D./N.D.

Extinguishing Media: WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE. FIRE-FIGHTERS

Procedures: SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. 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. **Environmental Precautions:** THIS PRODUCT HAS A MODERATE HAZARD POTENTIAL IF RELEASED INTO THE

ENVIRONMENT ACCIDENTLY. AMINES ARE CHEMICALLY AND BIOLOGICALLY

DEGRADABLE.

SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER, Procedures for Clean Up:

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

> THIS PRODUCT IS A STRONG ALKALINE MATERIAL. WEAR INDICATED Handling:

PROTECTIVE EQUIPMENT WHEN HANDLING THE UNDILUTED MATERIAL.

KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE AWAY FROM Storage:

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: CYCLOHEXYLAMINE: ACGIH (TLV) = 10 ppm (TWA)

Equipment for Personal

SAFETY GLASSES WITH SIDE SHIELDS OR CHEMCAL GOGGLES. IMPERMEABLE Protection: 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

<12.5 pH (undiluted): Specific Gravity: 0.96 - 0.98

Density: 8.1 lbs./gal.

Solubility in Water: COMPLETE Boiling Point: >212°F

Percent Volatile: 100

Vapor Pressure (mmHq): N.D.

Vapor Density: N.D.

Evaporation Rate: (water=1): ~1

**SECTION 10:** STABILITY AND REACTIVITY

**STABLE** 

Stability: Conditions to Avoid: NONE

**STABLE** Hazardous Polymerization:

Conditions to Avoid: NONE

Incompatibility: Hazardous Decomposition

REACTS VIOLENTLY WITH STRONG OXIDIZING AGENTS OR ACIDS.

Products: IF WATER EVAPORATED, OXIDES OF CARBON AND NITROGEN WILL BE PRODUCED BY COMBUSTION.

**SECTION 11:** TOXICOLOGICAL INFORMATION

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Material & Tests: CYCLOHEXYLAMINE: ORAL LD50 (RAT) = 11 mg/kg; DERMAL LD50 (RABBIT) = 0.32 mg/kg; INHALATION LC50 (RAT) = 7500 mg/m3.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: CYCLOHEXYLAMINE: 96 Hr LC 50 Rainbow Trout - 55.1 mg/l.

SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations: THIS PRODUCT WOULD NOT BE CONSIDERED A HAZARDOUS WASTE.

Procedures: 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. (CYCLOHEXYLAMINE)

Primary Hazard Class: COMBUSTIBLE

Identification No.: NA1993
Packing Group: III

2004 NAERG No.: | 128

### SECTION 15: REGULATORY INFORMATION

Regulation<br/>CERCLA (40 CFR302.4):Material<br/>CYCLOHEXYLAMINERQ<br/>1000Max. %<br/>50

 SARA 302 (Sect. 355, Appendix A):
 Material CYCLOHEXYLAMINE
 TPQ 10000
 Max. % 50

7,650110,771, 01020112,712,1111172 10000 00

SARA 311/312: <u>Categories</u> <u>Hazards</u> IMMEDIATE HEALTH EYE, SKIN CORROSIVE

SARA 313 (40 CFR Material Max. %

372.45): NONE

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

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

### **SECTION 16 OTHER INFORMATION**

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#### SUGGESTED HAZARD RATINGS

NFPA*	HAZARD	HMIS*
3	HEALTH (Blue)	3
2	FIRE (Red)	2
0	REACTIVITY (Yellow)	0
	PERSONAL PROTECTION	Ď
	SPECIAL HAZARDS	

<sup>\*</sup>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.