MATERIAL SAFETY DATA SHEET Q-COOL 355D

SECTION 1: IDENTIFICATION

Company Name: QUALICHEM, INC.

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Date Prepared: 3/17/09 Date Revised: 9/23/10

SECTION 2: INGREDIENTS

MATERIAL CAS NO. %
TRIETHANOLAMINE 102-71-6 10-30

SECTION 3: HEALTH HAZARDS

Emergency Overview: CONCENTRATE WILL CAUSE EYE IRRITATION BUT RECOMMENDED USE

DILUTIONS ARE NOT EXPECTED TO CAUSE IRRITATION. MISTS OF THE

CONCENTRATE AND DILUTION MAY CAUSE RESPIRATORY IRRITATION. WASH

THOROUGHLY AFTER HANDLING. AVOID BREATHING MISTS.

Ingestion: MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY.

Inhalation: NOT A LIKELY ROUTE OF EXPOSURE. HIGH VAPOR OR MIST CONCENTRATIONS

Skin Contact: MAY IRRITATE MUCOUS MEMBRANES.
PROLONGED CONTACT MAY CAUSE IRRITATION.

Eye Contact: MAY CAUSE SEVERE 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

UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING

BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS

PERSIST

Skin Contact: WASH WITH PLAIN WATER OR SOAP AND WATER.

Eye Contact: | IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL

ATTENTION IF IRRITATION PERSISTS.

Notes to Physician: TREAT SYMPTOMS WITH SUPPORTIVE MEASURES.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: NONE Upper/Lower Limit in Air: N.A./N.A.

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

Procedures: | FIREFIGHTERS 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: | WEAR PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8.

Procedures for Clean Up: | SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER TO A

SANITARY SEWER. LARGER SPILLS MAY BE DIKED TO MINIMIZE RUN-OFF.
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

MATERIAL SAFETY DATA SHEET Q-COOL 355D

SECTION 7: HANDLING AND STORAGE

> Handling: THIS PRODUCT HAS A LOW HAZARD POTENTIAL BUT NORMAL INDUSTRIAL

> > HANDLING PRECAUTIONS SHOULD BE OBSERVED. AVOID BREATHING MISTS.

AVOID CONTACT WITH EYES.

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

CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautionary Measures: STANDARD INDUSTRIAL HANDLING PRECAUTIONS.

Engineering Controls: LOCAL OR GENERAL VENTILATION TO MAINTAIN VAPOR CONCENTRATIONS

BELOW THRESHOLD LIMIT VALUES.

TRIETHANOLAMINE: 5 mg/m³ (ACGIH, TWA). Control Limits:

Equipment for Personal

Protection: SAFETY GLASSES AND IMPERVIOUS GLOVES. EYEWASH STATION IN AREA OF

USE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

> **CLEAR STRAW-COLORED LIQUID** Appearance:

MILD AMINE Odor:

pH (5% in DI water): 7.4-7.8 Specific Gravity: 1.05-1.07 8.81 lbs./gal. Density:

COMPLETE Solubility in Water: >212⁰F **Boiling Point:** Percent Volatile: >30 (WATER)

Vapor Pressure (mmHg): N.A. Vapor Density: N.A. **Evaporation Rate:** (water=1): 1

SECTION 10: STABILITY AND REACTIVITY

Stability: **STABLE** Conditions to Avoid: NONE Hazardous Polymerization: **STABLE** Conditions to Avoid: NONE

Incompatibility:

MAY REACT WITH STRONG OXIDIZING AGENTS OR ACIDS. Hazardous Decomposition

Products: IF WATER EVAPORATED. OXIDES OF CARBON & NITROGEN COULD BE

PRODUCED BY COMBUSTION.

SECTION 11: TOXICOLOGICAL INFORMATION

> NO TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. Materials and Tests: Carcinogenicity:

NO COMPONENT OF THIS PRODUCT IS LISTED AS A CARCINOGEN BY IARC, NTP,

OR ACGIH.

NOT A SENSITIZER. Sensitization:

NO COMPONENT OF THIS PRODUCT IS CLASSIFIED AS A MUTAGEN. Mutagenicity: NO COMPONENT OF THIS PRODUCT IS CLASSIFIED AS A TERATOGEN.

Teratogenicity:

SECTION 12: **ECOLOGICAL INFORMATION**

Ecotoxicity: NO TOXICITY TESTING HAS BEEN PERFORMED ON THIS PRODUCT.

MATERIAL SAFETY DATA SHEET Q-COOL 355D

SECTION 13: DISPOSAL CONSIDERATIONS

General Considerations: THIS PRODUCT HAS A LOW HAZARD PROFILE AND WOULD NOT NORMALLY BE

CONSIDERED A HAZARDOUS WASTE.

Procedures: DISPOSAL BY USE PREFERRED BUT IF THIS NOT POSSIBLE, DILUTE WITH

COPIOUS QUANTITIES OF WATER AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. HOWEVER, OBEY ALL FEDERAL, STATE OR LOCAL

REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

Shipping Name: NOT REGULATED.

SECTION 15: REGULATORY INFORMATION

Regulation Material RQ Max. %

CERCLA (40 CFR302.4): NONE

 SARA 302 (Sect. 355,
 Material
 TPQ
 Max. %

Appendix A): NONE

SARA 311/312: <u>Categories</u> <u>Hazards</u>

IMMEDIATE HEALTH EYE IRRITANT

SARA 313 (40 CFR Material Max. %

372.45): NONE

CWA (40 CFR 401.15): NONE

RCRA (40 CFR 261): NONE

Notes: THIS F

THIS PRODUCT NOT A HAZARDOUS WASTE PER RCRA REGULATIONS.

OSHA (29 CFR 1910.1200): ALL COMPONENTS LISTED UNDER THIS STANDARD ARE SHOWN IN SECTION 2

OF THIS MSDS.

WHMIS (Canada): CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC).

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED

PRODUCTS REGULATIONS.

Inventories: | ALL INGREDIENTS IN THIS PRODUCT ARE LISTED IN TSCA AND DSL (CANADA)

INVENTORIES.

SPECIAL STATE REGULATIONS

STATE	INGREDIENT	REGULATORY DESIGNATION
MN, MA, PA	TRIETHANOLAMINE	HAZARDOUS SUBSTANCE LIST

SECTION 16 OTHER INFORMATION

SUGGESTED HAZARD RATINGS

HAZARD	HMIS*		
HEALTH (Blue)	1		
FIRE (Red)	0		
REACTIVITY (Yellow)	0		
PERSONAL PROTECTION	В		
SPECIAL HAZARDS			

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

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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.

Revision 2.3

DATE PRINTED: February 27, 2013 PAGE No. 4