

MATERIAL SAFETY DATA SHEET

Q-COOL 350C

SECTION 1:
IDENTIFICATION

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| Company Name: | QUALICHEM, INC. |
| Address: | P.O. BOX 926 SALEM, VA 24153 |
| Phone No. | (540) 375-6700 |
| Fax No. | (540) 375-3880 |
| Emergency Phone No. | CHEM-TEL 800-255-3924 |
| Date Prepared: | 3/17/09 |
| Date Revised: | 3/28/12 |

SECTION 2:
INGREDIENTS

| <u>MATERIAL</u> | <u>CAS NO.</u> | <u>%</u> |
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| TRIETHANOLAMINE | 102-71-6 | 5-10 |
| 2-AMINO-2-METHYL-1-PROPANOL | 124-68-5 | 1-5 |
| ETHANOL, 2-(2-AMINOETHOXY)- | 929-06-6 | 1-5 |

SECTION 3:
HEALTH HAZARDS

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| Ingestion: | MAY BE TOXIC IN CONCENTRATED FORM. DO NOT TAKE INTERNALLY. DUE TO ALKALINE NATURE, MAY IRRITATE INTERNAL TISSUES. |
| Inhalation: | NOT A LIKELY ROUTE OF EXPOSURE. UNLIKELY HIGH VAPOR OR MIST CONCENTRATIONS MAY IRRITATE MUCOUS MEMBRANES. |
| Skin Contact: | 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

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| 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: | THIS PRODUCT IS MILDLY ALKALINE. TREAT SYMPTOMS WITH SUPPORTIVE MEASURES. |

SECTION 5:
FIRE AND EXPLOSION HAZARD DATA

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

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SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: Environmental Precautions: Procedures for Clean Up: Prohibited Materials: | WEAR PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. THIS PRODUCT HAS A VERY LOW HAZARD POTENTIAL IF RELEASED INTO THE ENVIRONMENT ACCIDENTLY. SMALL SPILLS MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER, PREFERABLY 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. NONE |
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SECTION 7: HANDLING AND STORAGE

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| Handling: Storage: | THIS PRODUCT HAS A LOW HAZARD POTENTIAL BUT NORMAL INDUSTRIAL HANDLING PRECAUTIONS SHOULD BE OBSERVED. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. |
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Precautionary Measures: Engineering Controls: Control Limits: Equipment for Personal Protection: | STANDARD INDUSTRIAL HANDLING PRECAUTIONS. WASH THOROUGHLY AFTER HANDLING CHEMICALS. USE WITH ADEQUATE VENTILATION TO KEEP EXPOSURES BELOW OCCUPATIONAL EXPOSURE LIMITS. TRIETHANOLAMINE: 5 mg/m ³ (ACGIH, TWA) SAFETY GLASSES WITH SIDE SHIELDS AND IMPERMEABLE GLOVES SHOULD BE WORN WHEN HANDLING THE CONCENTRATED PRODUCT. EYEWASH STATION IN AREA OF USE. |
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance: Odor: pH (undiluted): Specific Gravity: Density: Solubility in Water: Boiling Point: Percent Volatile: Vapor Pressure (mmHg): Vapor Density: Evaporation Rate: | YELLOW LIQUID CHARACTERISTIC 9.1-9.5 1.034-1.054 8.71 lbs./gal. COMPLETE >212 ^o F >60 (WATER) N.A. N.A. (water=1): 1 |
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SECTION 10: STABILITY AND REACTIVITY

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| Stability: Conditions to Avoid: Hazardous Polymerization: Conditions to Avoid: Incompatibility: Hazardous Decomposition Products: | STABLE NONE STABLE NONE MAY REACT WITH STRONG OXIDIZING AGENTS OR ACIDS. IF WATER EVAPORATED, OXIDES OF CARBON & NITROGEN COULD BE PRODUCED BY COMBUSTION. |
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SECTION 11: TOXICOLOGICAL INFORMATION

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| Materials and Tests: | NO TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. |
| Carcinogenicity: | NO COMPONENT OF THIS PRODUCT IS LISTED AS A CARCINOGEN BY IARC, NTP, OR ACGIH. |
| Sensitization: | NOT A SENSITIZER. |
| Mutagenicity: | NO COMPONENT OF THIS PRODUCT IS CLASSIFIED AS A MUTAGEN. |
| Teratogenicity: | NO COMPONENT OF THIS PRODUCT IS CLASSIFIED AS A TERATOGEN. |

SECTION 12: ECOLOGICAL INFORMATION

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| Ecotoxicity: | NO TOXICITY TESTING HAS BEEN PERFORMED ON THIS PRODUCT. |
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SECTION 13: DISPOSAL CONSIDERATIONS

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| 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

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| Shipping Name: | NOT REGULATED. |
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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> IMMEDIATE HEALTH | | <u>Hazards</u> EYE IRRITANT |
| SARA 313 (40 CFR 372.45): | <u>Material</u> | | <u>Max. %</u> |
| CWA (40 CFR 401.15): | NONE | | |
| RCRA (40 CFR 261): | NONE | | |
| Notes: | 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. | | |

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SPECIAL STATE REGULATIONS

| <u>STATE</u> | <u>INGREDIENT</u> | <u>REGULATORY DESIGNATION</u> |
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| MN, MA, PA PA | TRIETHANOLAMINE 2-AMINO-2-METHYL-1-ISOPROPANOL | HAZARDOUS SUBSTANCE LIST HAZARDOUS SUBSTANCE LIST |

SECTION 16 OTHER INFORMATION

SUGGESTED HAZARD RATINGS

| <u>NFPA*</u> | <u>HAZARD</u> | <u>HMIS*</u> |
|--------------|---------------------|--------------|
| 1 | HEALTH (Blue) | 1 |
| 0 | FIRE (Red) | 0 |
| 0 | REACTIVITY (Yellow) | 0 |
| | PERSONAL PROTECTION | B |
| | 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.

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