

MATERIAL SAFETY DATA SHEET

SolarTherm

SECTION 1:

IDENTIFICATION

Company Name: Address: Phone No. Fax No. Emergency Phone No. Date Prepared: Date Revised:	QUALICHEM TECHNOLOGIES 885 WOODSTOCK RD ROSWELL, GA 30075 (800) 658-7716 (877) 209-1556 CHEM-TEL 800-255-3924 5/21/97 10/11/05
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SECTION 2:

INGREDIENTS

Hazardous Ingredients

MATERIAL

CAS NO.

%

TLV

NONE

Non-Hazardous Ingredients

1-2 PROPANEDIOL
 INHIBITORS, BUFFERS AND WATER

50
 BAL.

NONE ESTAB.
 NONE ESTAB.

SECTION 3:

HEALTH HAZARDS

Ingestion: Inhalation: Skin Contact: Eye Contact: Other Information:	IF MORE THAN SEVERAL MOUTHFULS ARE INGESTED, ABDOMINAL DISCOMFORT, NAUSEA AND DIARRHEA MAY OCCUR. NOT A LIKELY ROUTE OF EXPOSURE. INHALATION OF MIST MAY BE IRRITATING TO RESPIRATORY TRACT, HEADACHE, NAUSEA AND DROWSINESS. NOT AN IRRITANT. PROLONGED CONTACT CAN RESULT IN DEFATTING. CAUSES MILD IRRITATION. OTHER THAN ACUTE EFFECTS LISTED ABOVE, NO LONG TERM EFFECTS KNOWN.
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SECTION 4:

FIRST AID

Ingestion: Inhalation: Skin Contact: Eye Contact: Notes to Physician:	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. REMOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. WASH WITH PLAIN WATER OR SOAP AND WATER. IMMEDIATELY FLUSH WITH CLEAR WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS. NO ANTIDOTES KNOWN. TREAT SYMPTOMS SUPPORTIVELY.
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SECTION 5:

FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: Lower Limit in Air: Upper Limit in Air: Extinguishing Media: Procedures: Unusual Hazards: Combustion Products:	NONE N.A. N.A. WATER OR ANY MEDIA SUITABLE FOR THE SURROUNDING FIRE. FIREFIGHTERS SHOULD WEAR NORMAL PROTECTIVE EQUIPMENT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN CONFINED AREAS. NONE IF WATER IS EVAPORATED, OXIDES OF CARBON AND NITROGEN MAY BE PRODUCED.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Environmental Precautions: Procedures for Clean Up: Prohibited Materials:	THE WEARING OF SAFETY GLASSES AS A MINIMUM IS RECOMMENDED. THIS PRODUCT HAS A 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

Handling: Storage:	NORMAL INDUSTRIAL HANDLING PRACTICES. 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

Precautionary Measures: Engineering Controls: Control Limits: Equipment for Personal Protection:	STANDARD INDUSTRIAL HANDLING PRECAUTIONS. NONE NONE. EYEWASH STATION AND SAFETY SHOWER IN AREA OF USE.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: pH (undiluted): Specific Gravity: Density: Solubility in Water: Boiling Point: Percent Volatile: Vapor Pressure (mmHg): Vapor Density: Evaporation Rate:	CLEAR LIQUID CHARACTERISTIC <12 1.05-1.07 8.88 lbs./gal. COMPLETE 212°F <5 (WATER) N.D. N.D. (water=1): ~1
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SECTION 10: STABILITY AND REACTIVITY

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 COULD BE PRODUCED BY COMBUSTION.
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SECTION 11: TOXICOLOGICAL INFORMATION

Material & Tests: Symptoms: Effects:	NONE DETERMINED. LOW ORDER OF TOXICITY EXPECTED. N.A. N.A.
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SECTION 12: ECOLOGICAL INFORMATION

Possible Effects:	TOXIC EFFECTS MINIMAL .
Biodegradability:	ALL ORGANIC COMPONENTS ARE BIODEGRADABLE.
Persistence:	NOT PERSISTENT.
Aquatic Toxicity:	N.D.

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 AND FLUSH TO WASTE, PREFERABLY TO A SANITARY SEWER. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS.
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SECTION 14: TRANSPORT INFORMATION

Shipping Name:	COMPOUNDS, WATER TREATMENT, N.O.S.
Primary Hazard Class:	NON-HAZARDOUS PER D.O.T. REGULATIONS
Secondary Hazard Class:	N.A.
Identification No.	N.A.
Packing Group:	N.A.
1996 NAERG No.	N.A.

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 IRRITANT
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> NONE	<u>INGREDIENT</u>	<u>%</u>	<u>REGULATORY DESIGNATION</u>
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SECTION 16 OTHER INFORMATION

SUGGESTED HAZARD RATINGS

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

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

Prepared By: Environmental Manager

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.