HAZTE	CCH Mater	ial Safety Dat	a Sheet	Page 1 of 4	
SYSTE	MS, <sup>™</sup> NFPA	HMIS		PPE (See Section 15)	
<b>U</b> INC		Health Hazard Fire Hazard Reactivity	1 1 0		
Section 1. Cher	nical Product and Company	Identification			
Trade Name	Amino Acid Test		Part #	RE2125	
			CAS #	107-21-1	
Manufacturer	HazTech Systems, Inc. PO Box 929		RTECS	KW2975000	
	Mariposa, CA 95338		TSCA	TSCA 8(b) inventory: Ethylene glycol	
Synonyms	Ethylene glycol, Antifreeze		CI #		
				mergency contact CHEMTREC at 800-424-9300	
Chemical Formula	HOCH2CH2OH		HazTech S	ystems, Inc. 800-337-2497	
Supplier Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St.		Corp.	Spectrum Chemical Mfg. Corp. 310-516-8000		
Section 2. Com	Gardena, CA 90248 position and Information on	Ingredients			

	Exposure Limits					1	
Name		CAS #	TWA (mg/m3)	STEL C	EIL (mg/m3)	% by	Weight
Ethylene glycol		107-21-1			100	100	
Toxicological Data on Ingredients	Ethylene glycol: ORAL (LD50): Acute: 4700 mg/kg [Rat]. 5500 mg/kg [Mouse]. 6610 mg/kg [Guinea pig]. VAPOR (LC50): Acute: >200 mg/m3 4 hours [Rat].						
Section 3. Hazards Identification							
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Severe over-exposure can result in death.						
Potential Chronic Health Effects							

Amino Acid Test		Page 2 of 4			
Section 4. First A	d Measures				
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.				
Skin Contact	Wash with soap and water. Cold water may be used.	Cover the irritated skin with an emollient. Get medical attention if irritation develops.			
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give o medical attention immediately.				
Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loc clothing such as a collar, tie, belt or waistband.					
Section 5. Fire an	l Explosion Data				
Flammability	May be comb	ustible at high temperature.			
Auto-Ignition Temper	ture 398°C (748.4	398°C (748.4°F)			
Flash Point	CLOSED CU	CLOSED CUP: 111°C (231.8°F). (TAG) OPEN CUP: 115.6°C (240.1°F) (Cleveland).			
Flammable Limits	LOWER: 3.29	% UPPER: 15.3%			
Products of Combustion	n CO, CO2, H2	CO, CO2, H2O			
Fire Hazards in Presen of Various Substances	e Slightly flamm	nable to flammable in presence of heat.			
Explosion Hazards in I of Various Substances	1	sion of the product in presence of mechanical impact: Not available. sion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions	SMALL FIRE	SMALL FIRE: Use DRY chemical powder. water, or CO2.			
Special Remarks on Fin	1	Explosive decomposition may occur if combined with strong acids or strong bases and subjecter to elevated temperatures.			

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal
	container.

### Section 7. Handling and Storage

Precautions	If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
	Do not breathe gas/fumes/vapor/spray.
Storage	Keep in HazCat Unknowns Kit.

# Section 8. Exposure Controls/Personal Protection

Engineering Controls Use in a well ventilated area.

Personal Protection Gloves and goggles.



Section E - Reagent MSDS'

# Amino Acid Test

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Section 9. Physical and Ch	nemical Properties					
Physical State and Appearance	Thick iquid		Volatili	ty	Not available	
Molecular Weight	62.07 g/mole		Odor T	hreshold	0.25 ppm	
pH (1% Solution in Water)	Not available.		Water/Oil Dist. Coeff.		The product is more soluble in water; log(oil/water) = -1.4	
Boiling Point 197.6°C (387.7°F)			Ionicity (in Water)		Not available	
Melting Point	-13°C (8.6°F)		Dispers	ion Properties	See solubility in water.	
Critical Temperature	Not available		Solubility		Easily soluble in water, methanol, n-octanol, acetone.	
Specific Gravity	1.1135 (Water = 1)		Odor		Not available	
Vapor Pressure	.06 mmHg @ 20 C; . 092 mmHg, @ 25 C		Taste		Mild sweet	
Vapor Density	2.14  (Air = 1)		Color		Colorless	
Section 10. Stability and	Reactivity Data					
Stability	Product is stable.			Corrosivity	Non-corrosive in presence of glass.	
Instability Temperature	Not available.			Special Remarl on Corrosivity		
Conditions of Instability	Not available.			Polymerizatior		
Incompatibility with Reactive with oxidizing Various Substances		ng agents, acids, a	•		i win not polymerize.	
Section 11. Toxicological	Information					
Route of Entry		Absorbed throu	ıgh skin. 1	Eye contact. Inge	estion.	
Toxicity to Animals		Acute oral toxicity (LD50): 4700 mg/kg [Rat].				
Chronic Effects on Humans		Acute toxicity of the vapor (LC50): >200 mg/m3 4 hours [Rat]. CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. Causes damage to the following organs: kidneys. May cause damage to the following organs: blood, lungs, the nervous system, the reproductive system, liver, heart, brain, central nervous system (CNS), pancreas.				
Other Toxic Effects on Humans Special Remarks on Toxicity to A Special Remarks on Chronic Effe Special Remarks on Other Toxic	Slightly hazardous in case of skin contact, of ingestion, of inhalation. Not available. Not available. Not available.					
Section 12. Ecological Info	ormation					
Ecotoxicity BOD5 and COD Products of Biodegradation Toxicity of the Products of Biode Special Remarks on the Products	Ecotoxicity in water (LC50): 41000 mg/l 96 hours [Trout]. .Not available. Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are less toxic than the product itself. Not available.					

Amino Acid Test (#1)

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Section 13. Dispo	sal Considerations			
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities.			
Section 14. Trans	port Information			
DOT Classification	Not available.			
Identification	Not available.			
Special Provisions for Transport	Not available.			
Section 15. Other	Regulatory Information and Pictograms			
Federal and State Regu	lations New York release reporting list: Ethylene glycol New York acutely hazardous substances: Ethylene glycol Rhode Island RTK hazardous substances: Ethylene glycol Pennsylvania RTK: Ethylene glycol Minnesota: Ethylene glycol Massachusetts RTK: Ethylene glycol New Jersey: Ethylene glycol Tennessee RTK: Ethylene glycol TSCA 8(b) inventory: Ethylene glycol SARA 313 toxic chemical notification and release reporting: Ethylene glycol			
California Proposition	65 Warnings			
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.			
Other classifications	WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC). DSCL (EEC) R22- Harmful if swallowed. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39- Wear suitable gloves and eye/face protection.			

### Section 16. Other Information

Part number(s)	RE2125
Other Special Considerations	Not available.
Validated by	R. Turkington
Verified by	R. Turkington

#### Call 1-800-543-5487

#### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, HazTech Systems, Inc., assumes no responsibility for the completeness or accuracy of the information contained herein.