HAZTE	CH [®] Material Safety I	Data Sheet	Page 1 of 4		
SYSTEM INC		MIS rd 4 0 2	PPE (See Section 15)		
Section 1. Cher	nical Product and Company Identification				
Trade Name	Asbestos Test A1	Code	RE2014		
		CAS #	7664-39-3		
Manufacturer	Haztech Systems, Inc. PO Box 929 Mariposa, CA 95338	RTECS TSCA	Not available. TSCA 8(b) inventory:		
Commercial Name	Hydrofluoric Acid, 48%		Hydrofluoric acid		
Synonyms		CI #			
		(24 hours)	emergency contact CHEMTREC at 800-424-9300 systems, Inc. 800-543-5487		
Chemical Formula	HF in H2O		Chemical Mfg. Corp. 310-516-8000		
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248		spectrum Chemical Wig. Corp. 510-510-8000		

Section 2. Composition and Information on Ingredients

	Exposure Limits				
Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Hydrogen Fluoride Water	7664-39-3 7732-18-5				48% 52%
Toxicological Hydrogen Fluoride: LD50: Not available. LC50: Hydrofluoric acid: Inhalation rat LC50: 1276 ppm/1H Data on Ingredients					

Section 3. Hazards Identification

Potential Acute
Health EffectsVery hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Exposure to
hydrofluoric acid can produce harmful health effects that may not be immediately apparent.Potential Chronic
Health EffectsVery hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Intake of more than 6 mg of fluorine per day may result in fluorosis, bone and joint damage. Hypocalcemia and
hypomagnesemia can occur from absorption of fluoride ion into blood stream.

Asbestos Test A1

Section 4. First Aid Mearsures					
Eye Contact Skin Contact	Contact 1) Irrigate eyes for at least 30 minutes with copious quantities of water, keeping the eyelids apart and away eyeballs during irrigation. 2) Get competent medical attention immediately, preferably an eye specialist. 3) physician is not immediately available, apply one or two drops of ophthalmic anesthetic, (e.g., 0.5% Ponto Hydrochloride solution). 4) Do not use oily drops, ointment or HF skin burn treatments. Place ice pack of until reaching emergency room.				
Inhalation Ingestion	warm and resting, and send to hospital after first aid is complete. Get medical help immediately. If patient is unconscious, give artificial respiration or use inhalator. Keep patient warm and resting, and send to hospital after first aid is complete. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.				
Section 5. Fire an	Section 5. Fire and Explosion Data				
Flammability		Non flammable.			
Auto-Ignition Temperature		Not applicable.			
Flash Point		Not applicable.			
Flammable Limits		Not applicable.			
Products of Combustion		Not applicable.			
Fire Hazards in Presence of Various Substances		Not applicable.			
Explosion Hazards in Presence of Various Substances		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions		Not applicable.			
Special Remarks on Fire Hazards		Not available.			

Section 6. Accidental Release Measures

Small Spill Collect liquid in an appropriate container or absorb with an inert material and place in a chemical waste container. Wash spill site with soda ash solution.

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

Storage Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use in a well ventilated area.

Personal Protection Gloves and goggles.

Asbestos Test A1

Page 3 of 4

Section 9. Physical and C	hemical Properties				
Physical State and Appearance	Colorless, fuming liqu	uid.	Volatili	ty	Not available
Molecular Weight	20.01		Odor T	hreshold	Not available
рН	1.0 (0.1M solution)		Water/0	Dil Dist. Coeff.	Not available
Boiling Point	108C (226F)		Ionicity	(in Water)	Not available
Melting Point	< -36C (< -33F)		Dispers	ion Properties	Not available
Critical Temperature	Not available		Solubili	ty	Water, infinitely soluble.
Specific Gravity	1.15 -1.18		Odor		Acrid odor. Do not breathe fumes.
Vapor Pressure	25 @ 20C (68F)		Taste		Not available
Vapor Density	1.97		Color		Variable
Section 10. Stability and	d Reactivity Data				
Stability	Product is stable.			Corrosivity	Corrosive in presence of glass.
Instability Temperature	Not available.			Special Remarl on Corrosivity	
Conditions of Instability	Not available.			Polymerization	
Incompatability with Various Substances	Many materials.			101)	
Section 11. Toxicological	Information				
Route of Entry		Eye contact. In	halation.	Ingestion. Skin c	contact.
Toxicity to Animals		Inhalation rat l	LC50: 12	76 ppm/1H	
Chroinc Effects on Humans		Intake of more than 6 mg of fluorine per day may result in fluorosis, bone and			
Other Toxic Effects on Humans Special Remarks on Toxicity to A Special Remarks on Chronic Effe Special Remarks on Other Toxic	ects on Humans	fluoride ion int Not available. Not available. Not available. Not available. Not available.			agnesemia can occur from absorption of
Section 12. Ecological Inf	ormation				
Ecotoxicity		Not available.			
BOD5 and COD		Not available.			
Products of Biodegradation		Not available.			
Toxicity of the Products of Biodegradation		Not available.			
Special Remarks on the Products of Biodegradation		Not available.			

Section 13. Disposal	Considerations		
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities.		
Section 14. Transport Information			
DOT Classification 8	, 6.1, UN1790		
Identification N	lot applicable.		
Special Provisions N for Transport	lot applicable.		
Section 15. Other Regulatory Information and Pictograms			
Federal and State Regulation	ons TSCA 8(b) inventory: Hydrofluoric acid		
California Proposition 65 Warnings			
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other classifications	WHMIS (Canada) Not available.		
	DSCL (EEC) Not available.		
Section 16. Other Information			
Catalog Number(s)	RE2014		
References	Not available.		
Other Special Consideration	ons Not available.		
Validated by	R. Houghton 7/25/02		
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, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.