MATERIAL SAFETY DATA SHEET

1 10-Phenanthroline

1,1011101			
SECTION 1 . Product and Company	Idenfication		
Product Name and Synonym:	1,10-Phenanthroline		
Product Code:	6620		
Material Uses:		Health:	1
		Flammability:	0
Manufacturer:	Aqua Solutions, Inc	Reactivity:	0
	6913 Hwy 225		<u> </u>
	Deer Park, TX 77536	Hazard Rating: Least Slight Moderate High Extr	reme
	(281) 479-2569	0 1 2 3 4	
Entry Date :	12/1/2014	NA=Not Applicable NE=Not Establish	hed
Print Date:	12/1/2014		
24 Hour Emergency Assistance :	Chemtrec 800-424-9300 Canutec 613-996-6666		

SECTION 2 HAZARD IDENTIFICATION

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313 Component 1,10-Phenanthroline, Monohydrate	CAS Number CAS# 5144-89- 8	Percent Comp. 0.1%	Dimension W/V	Exposure Limits
✓ Hydrochloric Acid	CAS# 7647-01- 0	0.1%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m <i>f</i>
Water, Deionized ASTM Type II	CAS# 7732-18- 5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconcious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type:

Any means suitable for extinguishing surrounding fire

1,10-Ph	enanthroline					
Fire / Explosion Hazards:	None Known.					
Fire Fighting Procedure:		Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.				
SECTION 6 ACCIDENTAL RELEA	SE MEASURES					
	Absorb spill with ine	rt material. Flush excess down d	rain.			
SECTION 7 HANDLING AND STO	RAGE					
		lace. Do not get in eyes, on skin, bughly after handling	on			
SECTION 8 EXPOSURE CONTRO	LS/PERSONAL PROTECTI	ON				
Respiratory Protection:	None required	None required				
Ventilation	Local Exhaust 🔽					
	Mechanical					
Protective Gloves:	Gloves to prevent s	Gloves to prevent skin exposure as rubber or vinyl				
Eye Protection:	Splash Goggles					
Other Protective Equipment:	Wear appropriate c skin exposure	Wear appropriate clothing to prevent skin exposure				
SECTION 9 PHYSICAL AND CHE	MICAL PROPERTIES					
Melting Point:	~0° C	Percent Volatile by Volume:	>99%			
Boiling Point:	~100° C	Evaporation Rate	not available			
Vapor Pressure:	not available	Evaporation Standard				
Vapor Density:	not available	Auto Ignition Temp	Not applicable			
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable			
Appearance /Odors:	Colorless, odorless liquid	Upper Flamm. Limit in Air	Not applicable			
Flash Point:	not flammable					
Specific Gravity:	~1.0					
SECTION 10 STABILITY AND REA	ACTIVITY INFORMATION					
Stability:	Stable					
Conditions to Avoid:	Protect from freezing	Protect from freezing, avoid light				
Materials to Avoid:	none known					
Hazardous Decomposition Products:	none known					
Hazardous polymerization:	not expected to occ	not expected to occur				
Conditions to Avoid:	None known					
SECTION 11 Toxicological Information						
SECTION 12 Ecologi	cal Information					

	1,10-Phenanthroline
SECTION 13	Disposal Considerations
SECTION 14	Transport Information
DOT Classificat	on: Not Regulated
DOT Regulations	may change from time to time. Please consult the most recent D.O.T. regulations.
SECTION 15	Regulatory Information
SECTION 16	Additional Information
	Conditions aggravated/Target organs: None known. Acute: slight irritation possible to skin, eyes, lungs, mucous membranes and GI tract. Chronic: none known.
	Flammability
	Health Reactivity
Revisions	NFPA 0.1
	0.1

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