

TETRA Technologies, Inc.

MATERIAL SAFETY DATA SHEET



PayZone[®] SI-139 Scale Inhibitor

1. PRODUCT AND COMPANY IDENTIFICATION

TETRA Technologies, Inc. 25025 I-45 North The Woodlands, TX 77380	CHEMTREC (24-Hr Emergency Response):	(800) 424-9300
	Poison Control:	(800) 222-1222
	Non-emergency Customer Service:	(281) 367-1983
Substance:	PayZone [®] SI-139 Scale Inhibitor	
Synonyms:	SI-139	
Chemical Family:	Mixture	
Product Use:	Scale inhibitor	
MSDS Creation Date:	June 1, 2007	
MSDS Revision Date:	None	

2. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4):	Health – 3 Fire –0 Instability –0
EMERGENCY OVERVIEW:	Yellow liquid. Can burn the skin and eyes. Mists can cause irritation or burns. Not flammable.
Potential Health Effects:	
Inhalation:	Mists can cause irritation and/or burns.
Skin Contact:	Causes corrosive burns.
Eye Contact:	Causes burns and untreated exposures may result in severe damage or blindness.
Ingestion:	Can burn mouth, esophagus and digestive tract.
Carcinogen Status:	OSHA – No NTP – No IARC – No

3. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt. %	Ingredient Name
Trade secret	30 – 60	Amine phosphonate
12125-02-9	5 – 10	Ammonium chloride
7664-38-2	0.1 – 1	Phosphoric acid

4. FIRST AID MEASURES

Eye Contact:	Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical assistance.
Skin Contact:	Wash off immediately with running water while removing all contaminated clothing and shoes. Get immediate medical assistance. Thoroughly clean before reuse.
Inhalation:	Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person, but if conscious, give the person several glasses of water to drink and get immediate medical attention.
Notes to Physician:	Treat symptomatically.



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5. FIRE FIGHTING MEASURES

Flash Point:	None anticipated (water based solution)
Extinguishing Media:	Use any standard agent to fight surrounding fire.
Fire Fighting:	Although water based, some organic components may evolve in the heat of a structural fire. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Fire and Explosion Hazard:	Containers may rupture is exposed to heat of a fire or direct flames.
Products of Combustion:	Combustion products may include carbon monoxide, carbon dioxide, and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Evacuation and Safety:	Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8. Do not enter confined spaces without proper respiratory protection.
Containment of Spill:	Properly protected personnel may stop the source of the release if it can be done without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping.
Cleanup and Disposal:	Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

7. HANDLING AND STORAGE

Handling:	Read and observe all precautions on product label. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Ground containers to avoid development of static charges.
Storage:	Keep container closed when not in use. Container is not designed to contain pressure. Does not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use in a well-ventilated area sufficient to keep vapors below safe exposure levels.
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Exposure Limits:

Ingredient	ACGIH-TWA [®]	ACGIH-STEL	OSHA-TWA	OSHA-STEL
Ammonium chloride	10 mg/m ³	20 mg/m ³	None	None
Phosphoric acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	None

Personal Protective Equipment

Eyes:	Wear eye protection such as safety glasses with side shields, chemical splash goggles or face shields.
Hands and Feet:	Wear rubber or neoprene gloves. Use of rubber boots is recommended.
Body:	For liquid transfers, a rubber apron or coat is recommended.
Respiratory:	Respiratory protection not normally required for properly ventilated work areas. If required use an air purifying respirator with acid and organic cartridges or a supplied air respirator. For firefighting and other immediately dangerous to life or health conditions:



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Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	Yellow liquid
Odor:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Molecular Weight:	Mixture
Specific Gravity (H₂O=1):	1.135 (9.46 pounds per gallon)
pH:	<2.0 (highly acidic)
Water Solubility:	Soluble in water
Vapor Density (Air=1):	Not determined
Vapor Pressure:	Not determined
Pour Point	Not determined
Viscosity:	Not determined
Flash Point:	None anticipated (water based solution)
Lower/Upper Flame Limits:	None anticipated
Auto-ignition Temperature:	None anticipated

10. STABILITY AND REACTIVITY

Stability and Reactivity:	Stable under normal conditions.
Incompatibilities:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. May also react with alkalis generating heat sufficient to cause spattering of liquid..
Hazardous Decomposition:	Thermal decomposition products may include toxic oxides of carbon and nitrogen.
Polymerization:	Does not occur.
Conditions to Avoid:	Avoid contact with strong oxidizers and alkalies.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:	<p>Immediate Health Effects: Acute Oral Toxicity: Material is corrosive Acute Dermal Toxicity: Not determined Eye Irritation: Corrosive Skin Irritation: Corrosive</p> <p>Additional toxicology information: None available.</p>
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12. ECOLOGICAL INFORMATION

Data is not available but as an acidic material, the undiluted product is expected to be harmful to fish, invertebrates and vegetation (direct contact).

13. DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance. This product, as *shipped* is a corrosive hazardous waste (D002) under RCRA regulations. Once mixed with other materials it is the obligation of the user to determine the RCRA status of the resulting mixture.



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14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

Shipping Name:	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)
ID Number:	UN3264
Hazard Class or Division:	8
Packing Group:	II
Labeling Requirements:	Corrosive
Packing Authorizations:	
Exceptions:	None
Non-bulk Packing:	40CFR173.201
Bulk Packing:	40CFR173.243
Quantity Limitations:	
Passenger Aircraft:	0.5 liters
Cargo Aircraft Only:	2.5 liters
Vessel Stowage Req.:	Location B
Emergency Guide Number:	154

15. REGULATORY INFORMATION

Workplace Classification:	Hazardous
SARA Title III:	Sections 311/312: Acute hazard,
TSCA Status:	All ingredients listed on TSCA Chemical Inventory
CERCLA:	No ingredients listed
Clean Air Act:	No ingredients listed
OSHA Process Safety:	Not applicable
California Proposition 65:	No ingredients listed
WHMIS Classification:	D2B This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

TETRA Technologies, Inc. reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.