

TETRA Technologies, Inc.

MATERIAL SAFETY DATA SHEET



TETRAFLEX pH Stay

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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
	Nonemergency Customer Service:	(281) 367-1983
Substance:	Proprietary	
Synonyms:	None	
Chemical Family	Inorganic salt	
MSDS Creation Date:	23 Jan 03	
MSDS Revision Date:	22 Nov 05	

2. HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name	RTECS Number
Proprietary	Proprietary	Proprietary	Proprietary

The composition information on this product is proprietary. This product or one of its components is hazardous as defined in 29 CFR 1910.1200. In the event of a medical emergency, spill or fire, compositional information will be revealed to a physician, nurse, or responding emergency personnel.

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4):	Health – 1 Fire – 0 Reactivity – 0
Emergency Overview:	Odorless, white/off-white powder. May cause irritation. Do not get in eyes, on skin, or on clothing. Avoid repeated or prolonged contact with skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation.
Potential Health Effects:	
Inhalation:	May cause irritation.
Skin Contact:	May cause irritation.
Eye Contact:	May cause irritation.
Ingestion:	May cause irritation, nausea, vomiting, diarrhea, or stomach pain.
Carcinogen Status:	OSHA – No NTP – No IARC – No

4. FIRST AID MEASURES

Eye Contact:	Flush eyes with large amounts of water. Get medical attention immediately.
Skin Contact:	Wash with large amounts of soap and water. Remove contaminated clothing and clean before reuse. Get medical attention if needed.
Inhalation:	If adverse effects occur, remove from contaminated area. Get medical attention immediately.
Ingestion:	If large amount is swallowed, get medical attention.
Notes to Physician:	No specific antidote. Treat symptomatically and supportively.

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5. FIRE FIGHTING MEASURES

Flash Point:	Not available.
Extinguishing Media:	Use extinguishing agents appropriate for surrounding fire.
Fire Fighting:	Move product from fire area if you can without risk. Avoid inhalation of material or combustion by-products. Keep upwind and out of low areas.
Fire and Explosion Hazard:	Negligible fire hazard.
Products of Combustion:	Thermal decomposition may release toxic and/or hazardous gases.

6. ACCIDENTAL RELEASE MEASURES

Evacuation and Safety:	Wear appropriate protective gear for the situation. See personal protection information in Section 8.
Containment of Spill:	Absorb with sand or other non-combustible material.
Cleanup and Disposal:	Collect in appropriate container for disposal.

7. HANDLING AND STORAGE

Handling:	Observe all federal, state, and local regulations when handling this product.
Storage:	Keep dry. Store with bases and keep away from incompatible materials. Use methods to minimize dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.			
Exposure Limits:	OSHA TWA (fume; total particulate) 15 mg/m ³	ACGIH TWA (fume) 10 mg/ m ³	DFG MAK TWA (inhalable dust fraction) 4 mg/m ³	DFG MAK (respirable dust fraction) 1.5 mg/ m ³
Eyes:	Wear safety glasses with splash side shields o safety goggles/shield.			
Body:	Wear appropriate chemical resistant clothing. Wash contaminated clothing before reuse.			
Respiratory:	If a respirator is used, the selection must be based on contamination levels found in the workplace and specific to the job assignment.			
Hands and Feet:	Wear chemical resistant, non-slip gloves and boots.			

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	White or off-white powder
Odor:	Odorless
Boiling Point:	3600°C
Melting Point:	2800°C
Molecular Weight:	Not available.
Specific Gravity (H ₂ O=1):	2.5 – 3.5
pH:	10.3 in saturated aqueous solution
Water Solubility:	Insoluble in water
Vapor Density (Air=1):	Not available
Vapor Pressure:	Not available
Viscosity:	Not available.

10. STABILITY AND REACTIVITY

Stability and Reactivity:	Stable under normal temperatures and pressures.
Incompatibilities:	Strong acids and interhalogens.
Hazardous Decomposition:	None
Polymerization:	Does not occur.
Conditions to Avoid:	Dust generation, moist air, or prolonged exposure to air.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:	TC _{LO} 400 mg/m ³ inhalation, human
Local Effects:	No data available.
Health Effects:	
Inhalation, Skin, Eyes	Dust may cause respiratory tract irritation. Metal fume fever, an influenza-like illness, may occur. Symptoms include metallic taste in mouth, fever, chills, cough, lethargy, muscular pain, headache or other flu-like symptoms. May cause irritation to skin. May cause irritation to eyes, such as redness and pain.
Ingestion:	May cause diarrhea. These salts are generally slowly absorbed. If the salts are not purged through diarrhea, mucosal irritation and absorption may occur; this may lead to central nervous system depression, abolition of reflexes and death from respiratory paralysis.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

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14. DEPARTMENT OF TRANSPORTATION (DOT) TRANSPORT INFORMATION

Shipping Name:	Not regulated.
ID Number:	Not applicable
Hazard Class or Division:	Not applicable
Packing Group:	Not applicable
Labeling Requirements:	Not applicable
Packing Authorizations:	
Exceptions:	Not applicable
Non-bulk Packing:	Not applicable
Bulk Packing:	Not applicable
Quantity Limitations:	
Passenger Aircraft or Railcar:	Not applicable
Cargo Aircraft Only:	Not applicable
Vessel Stowage Requirements:	Not applicable
Emergency Guide Number:	Not applicable

15. REGULATORY INFORMATION

Workplace Classification:	
SARA Title III:	No
TSCA Status:	Yes
CERCLA:	No
OSHA Process Safety:	No
California Proposition 65:	No
WHMIS Classification:	Not determined



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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.