



# TETRAClean 106

## 1. PRODUCT AND COMPANY IDENTIFICATION

TETRA Technologies, Inc. 25025 I-45 North The Woodlands, TX 77380	CHEMTREC (24-Hr Emergency Response):	U.S. Toll Free (800) 424-9300 International +1 703-527-3887
	Poison Control:	(800) 222-1222
	Non-emergency Customer Service:	(281) 367-1983
Chemical Family:	Surfactant Activator	
MSDS Creation Date:	August 20, 2008	
MSDS Revision Date:	N/A	

## 2. HAZARDS IDENTIFICATION

NFPA Ratings: (Scale 0-4)	Health: 1      Fire: 0      Reactivity: 0
EMERGENCY OVERVIEW:	Clear odorless liquid. Can be irritating to sensitive skin or eyes.
<b>Potential Health Effects</b>	
Skin Contact:	Possible irritation on prolonged contact with moist or sensitive areas of the skin.
Eye Contact:	May cause irritation, redness and/or pain, watering, or itching.
Inhalation:	Not an expected route of entry; however, if vapors or mists are inhaled above exposure levels, irritation of respiratory tract may be experienced.
Ingestion:	May cause adverse health effects.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt. %	Ingredient Name
68-04-2	5 – 8	Citric acid
7758-29-4	2 – 5	Sodium tripolyphosphate

## 4. FIRST AID MEASURES

Skin Contact:	Immediately flush skin with plenty of water for at least 20 minutes. Remove and isolate contaminated clothing and shoes. Wash clothing and shoes before reuse. Obtain medical attention if irritation develops.
Eye Contact:	Immediately flush eyes with a large amount of water for a minimum of 15 minutes. Obtain medical attention immediately.
Inhalation:	Remove to fresh air immediately. Get medical attention immediately for any breathing difficulty.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

## 5. FIRE FIGHTING MEASURES

Flash Point:	Not Available
Extinguishing Media:	Small Fires: Use DRY chemical powder. Large Fires: Use water spray, fog, or alcohol-resistant foam. Do not use water jet.
Fire Fighting:	Cool exposed containers with water until the fire is out.



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Fire and Explosion Hazard:	If product is exposed to fire conditions, harmful fumes may develop.
Products of Combustion:	Not known.

## 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.
Cleanup and Disposal:	Collect using absorbents such as sand, earth, and dolomite. Place in a suitable container. Dispose of in accordance with local, federal, and state regulations.

## 7. HANDLING AND STORAGE

Handling:	Observe all federal, state, and local regulations when handling this liquid.
Storage:	Store in cool, dry, and well ventilated areas. Storage containers should be closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Ensure adequate ventilation.
<b>Exposure Limits:</b> Citric acid: Not established Sodium tripolyphosphate: Not established	
<b>Personal Protective Equipment (PPE)</b>	
Eyes:	Wear safety glasses with splash shields or safety goggles/shield.
Hands and Feet:	Wear appropriate protective gloves and shoes.
Body:	Wear appropriate protective (impervious) clothing.
Respiratory:	Use of a NIOSH approved respirator should be based on contamination levels in the workplace or situation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	Clear, colorless liquid
Odor:	None
Specific Gravity (H <sub>2</sub> O=1):	1.09 – 1.10
Density:	9.0 – 9.1
pH:	8.8 – 9.1
Water Solubility:	Complete

## 10. STABILITY AND REACTIVITY

Stability and Reactivity:	Stable under ordinary conditions of use and storage.
Incompatibilities:	None known
Hazardous Decomposition:	When heated to decomposition product may emit toxic fumes of Na <sub>2</sub> O, carbon dioxide, carbon monoxide.
Polymerization:	Not Available
Conditions to Avoid:	None known.



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## 11. TOXICOLOGICAL INFORMATION

Toxicity Data:	Citric acid: LD <sub>50</sub> : 1548 mg/kg (ipr- rat)
Carcinogen Status:	OSHA – No      NTP – No      IARC – No

## 12. ECOLOGICAL INFORMATION

No information available.

## 13. DISPOSAL INFORMATION

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

## 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:	Not Applicable
Cargo Aircraft Only:	Not Applicable
Vessel Stowage Req.:	Not Applicable
Emergency Guide Number:	Not Applicable

## 15. REGULATORY INFORMATION

OSHA Process Safety:	No
SARA Title III:	313: Yes
TSCA Status:	Yes
CERCLA:	No
California Proposition 65:	No

## 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



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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.