

# MATERIAL SAFETY DATA SHEET

Last Step

Date Prepared: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Last Step

Product Use: Textile Rinse

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

P.O. Box 968

Rancho Cordova, CA 95742

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### COMPONENT

### CAS #

- |                      |         |
|----------------------|---------|
| 1. Citric acid       | 77-92-9 |
| 2. Dimethyl carbinol | 67-63-0 |

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid

Irritating to respiratory and digestive tract, acute nervous system, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Excessive inhalation may cause irritation of the respiratory tract.

### Eye Contact:

Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Repeated exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed can cause GI irritation.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Give large quantities of water and if available give several glasses of milk. If vomiting occurs spontaneously, keep airway clear and give more water.

## SECTION 5 – Fire Fighting Measures

Flashpoint:

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

MSDS Product: Last Step

Page 1 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

## General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame contains combustible liquid.

## Fire Fighting Instructions:

Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

## Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

## Hazardous combustion products:

Hazardous combustion products may include and are not limited to ; carbon dioxide, carbon monoxide.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS		OTHER LIMIT	HAZARD
	OSHA PEL	ACGIH TLV		
1	NOT EST.	NOT EST.		
2	400 ppm	400 ppm		

Respiratory: These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

Eye Protection: Wear safety goggles to protect against contact when appropriate.

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other: Emergency shower and eyewash facility of some kind should be in close proximity.

One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

# MATERIAL SAFETY DATA SHEET

## SECTION 9 – Physical and Chemical properties

Clear liquid with light odor.  
PH: 4 in 1% solution  
PH: 3.0 as shipped  
Vapor pressure: not available  
Vapor density: not available  
Boiling point: not available  
Freezing/Melting point: N/A  
Solubility in water: soluble  
Density:  
Flammability: not established  
Particle size: N/A  
Evaporation rate: not available  
Viscosity:

## SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure.

Incompatibility with other materials: Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

## Section 11- Toxicological Information

Toxicological information not available on this mixture. Limits given are for components as listed in section 2.

1. LD50 rat oral 3000mg/kg
2. Not established

## Section 12- Ecological Information

Ecological information not established on this mixture.

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.154 LTD QTY & ORM-D

MSDS Product: Last Step

Page 3 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

This mixture has *no established regulatory information* all regulatory information given is based on individual components of the mixture by component number.

1 No information given.

2

**SARA Concentr:** 1.0%, **OSHA:** Not carcinogenic, **IARC Rating:** 3, **NFPA Rating:** Health: 1, Flammability: 3, Reactivity: 0, **NIOSH Standard:** 76-142, **NIOSH/OSHA Guideline:** 81-123,

**State Lists:**

**Florida:** Components of this chemical are listed a toxic substance by the state of Florida.

**Massachusetts Haz. Substance codes:** 2,4,5,6, F9

**Pennsylvania Haz substance code:** E

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**