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	<b>MATERIAL SAFETY DATA SHEET</b>	
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----- I. PRODUCT IDENTIFICATION -----

TRADE NAME (as labeled): LATICRETE 377 Cleaning Additive

CHEMICAL FAMILY:

MANUFACTURER'S NAME: LATICRETE INTERNATIONAL, INC.  
 1 Laticrete Park, N.  
 Bethany, CT 06524-3423 USA

Phone number for additional information: (203) 393-0010

Date prepared or revised: 1/2012 Name of preparer: S.B. Fine

----- II. HAZARDOUS INGREDIENTS -----

CHEMICAL NAMES	CAS NUMBERS	PERCENT	ACGIH TLV	OSHA PEL	OTHER (SPECIFY)
Citric acid	77-92-9	100	N/A	N/A	

**N/A = Not applicable or available**

----- III. HEALTH HAZARD INFORMATION -----

**SYMPTOMS OF OVEREXPOSURE** for each potential route of exposure. (Possible Longer Term Effects) Repeated or prolonged exposure can produce target organs damage. Repeated exposure to a low level of dust can produce eye irritation. Repeated skin irritation can produce local skin destruction. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

**SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)** Hazardous in case of eye contact (irritant), of ingestion, and of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant, sensitizer). Corrosive to skin and eyes. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness, or death.

**SUSPECTED CANCER AGENT?**

**NO:** This product's ingredients are not found in the lists below.

**YES:**  Federal OSHA  NTP  IARC



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## IV. FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention.

Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Swallowed Do not induce vomiting. Loosen tight clothing. Get medical attention.

## V. FIRE AND EXPLOSION

Flash Point method): 212°F Closed Cup Method

Auto ignition temperature, °F: 1010

Flammable limits in air, volume %:

Lower (LEL) 0.28%

Upper (UEL) 2.29%

Fire extinguishing materials:

water spray

carbon dioxide

other:

foam

dry chemical

Special fire fighting procedures: Wear self contained breathing apparatus.

Unusual fire and explosion hazards: Fine dust in a fire is a potential dust explosion hazard.

## VI. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Use appropriate tools to put the spilled solid in a waste disposal container. Wear safety goggles, gloves, a NIOSH approved dust mask, and long sleeved clothing. Prevent entry into sewers or water supply.

Preparing wastes for disposal (container types, neutralization, etc.):

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

## VII. Handling and Storage

Keep away from heat. Keep dry.



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----- VIII. Exposure Controls and Personal Protection -----

Ventilation and engineering controls: Use local exhaust ventilation.

Respiratory protection (type): NIOSH approved dust mask.

Eye protection (type): Safety glasses or goggles.

Gloves (specify material): Impervious gloves.

Other clothing and equipment: Long sleeved clothing.

Work practices, hygienic practices: Normal good housekeeping.

Other handling and storage requirements: See above.

Protective measures during maintenance of contaminated equipment: See above.

----- IX. PHYSICAL PROPERTIES -----

Vapor density (air=1): N/A

Melting point or range, °F: 307

Specific gravity: 1.665 g/cc

Boiling point or range, °F: N/A

Solubility in water: soluble

Evaporation rate (butyl acetate = 1): N/A

Vapor pressure, mmHg at 20°C: N/A

Appearance and odor: White powder, odorless

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist): N/A

----- X. REACTIVITY DATA -----

Stability:     x     Stable      Unstable

Conditions to avoid: Excess heat

Incompatibility (materials to avoid): Strong alkalis, oxidizing agents, will corrode copper, aluminum, and zinc.

Hazardous decomposition products (including combustion products): (from burning, heating, or reaction with other materials). N/A

Hazardous polymerization:      May occur     x     Will not occur

Conditions to avoid: N/A



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-----XI. Toxicology Information-----

Oral (LD50) Acute: 5040 mg/kg (mouse) 3000 mg/kg (rat)  
LDL (rabbit) Route oral Dose 7000 mg/kg

-----XII. Ecological Information-----

N/A

-----XIII. Disposal Information-----

Dispose in compliance with local, state, and federal regulations.

-----XIV. Transport Information-----

No special labeling or transportation placarding is required.

-----XV. Regulatory Information-----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

WHMIS (Canada) Class D-2B: Material causing other toxic effects

Class E: Corrosive solid

-----XVI Other Information-----

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