



# CITRIC CLEAN

**Citric Clean** is a polished metal safe citrus based acid presoak. It was developed for applications where the use of HF acid is not permissible.

## FEATURES & BENEFITS

- **METAL SAFE**  
Safe on polished metals and chrome
- **BRIGHTENS CHROME & ALUMINUM**  
Low pH formula makes the vehicles look shinier and brighter
- **NON-HF**  
Does not contain Hydrofluoric Acid (HF)



## DIRECTIONS

**Specifically designed for cleaning both over-the-road and delivery trailers.**  
**Citric Clean is a concentrate and MUST be diluted before use.**

One volume of **Citric Clean** may be diluted 1:5 to 1:50 in water. An initial cleaning of very badly oxidized trailers with **Citric Clean** diluted 1:5 to 1:15 in water is recommended, followed by regular cleaning at 1:35 in water.

Apply the diluted **Citric Clean** to the surface of the trailer with a brush or by spraying, working from the bottom upward. It is important to apply the **Citric Clean** solution from the bottom upwards to avoid streaking.

If a brush is used to apply the **Citric Clean**, about one-third of the side of a trailer should be covered and the area rinsed before continuing onto the next portion. This is necessary to prevent the brightener from drying on the surface of the trailer and making rinsing difficult.

If application of **Citric Clean** is made by spraying, the entire side of the trailer can be sprayed and the rinsing operation begun 15 seconds after application of the brightener is completed. Application by spraying is highly recommended, since the time required for cleaning and brightening is cut one-fourth that required by brushing.

**NOTE: See reverse side for MSDS information and General Cautions for Use**

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# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** Citric Clean  
**Product Class:** Acid cleaner  
**Emergency Telephone Number:** 800-535-5053 (INFOTRAC)  
**Telephone Number for Information:** 763-509-7937  
**Manufactured by:**  
Ver-Tech Labs  
6801 Bleck Drive  
Rockford, MN 55373

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)
A	Sulfuric Acid AS #7664-93-9

## SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview**  
**Appearance and Odor:** amber liquid, mild odor.  
**Primary Hazards:** Corrosive

**Potential Health Hazards**  
**Route(s) of Entry:** Skin Absorption: X Ingestion: X Inhalation: X  
**Eye:** May cause severe burns.  
**Skin:** May cause severe burns.  
**Ingestion:** May be harmful or fatal if swallowed.  
**Inhalation:** Vapors may be harmful.  
**Signs and Symptoms of Exposure:** Severe irritation on direct contact.  
**Carcinogenicity:** NTP? No IARC Monographs? No  
**OSHA Regulated?** No  
**Target Organ (s):** Eyes, skin, respiratory system.  
**Medical Conditions Generally Aggravated by Exposure:** pre-existing skin or respiratory conditions.  
**Health Hazards, Chronic:** N. Av.

## SECTION IV - FIRST AID MEASURES

**Emergency and First Aid Procedures:**  
**If Swallowed:** Call a physician immediately. Rinse mouth with water. Drink water in large amounts. Never give anything by mouth to an unconscious person. **Eye Contact:** Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. **Skin Contact:** Flood surface with water. If irritation persists seek medical attention. Remove and wash contaminated clothing before reuse.  
**Sources Used:** Raw material data, general toxicology from the trade for similar products.

## SECTION V - FIRE FIGHTING MEASURES

**Flammability:** Non-flammable **Autoignition Temperature:** N. Ap.  
**Flash Point (method used):** None  
**Flammable Limits:** N. Ap. LEL UEL  
**Extinguishing Media:** N. Ap.  

Water?	Foam?	Water Fog?
Alcohol Foam?	CO <sub>2</sub> ?	Dry Chemical?
Vaporizing Liquid?	Other?	

**Special Fire Fighting Procedures:** N. Ap.  
**Unusual Fire and Explosion Hazards:**  
**TDG Flammability Classification:** Non-flammable  
**Sensitivity to Mechanical Impact:** None  
**Sensitivity to Static Discharge:** None

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Released or Spilled:**  
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

## SECTION VII - HANDLING AND STORAGE

**Precautions to be Taken in Handling and Storing:**  
Normal care in handling and storage.  
**Other Precautions:** Keep out of reach of children. Keep from freezing.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (Specify Types):** Not required where ventilation is sufficient to maintain hydrogen chloride vapor level below listed TLV (Section XI).  
**Ventilation:** Local Exhaust: Not required Special: Not required  
Mechanical (General): As required to keep vapor levels below listed TLV (Section XI). Other: Not required  
**Protective Gloves:** Chemical resistant rubber  
**Eye Protection:** Approved safety goggles or glasses.  
**Footwear:** Chemical resistant footwear may be required.  
**Other Protective Clothing or Equipment:** Not required  
**Work/Hygienic Practices:** Do not breath vapors or fumes. Do not contaminate food or beverages with cleaning chemicals.

## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** Approximately 212°F (100°C) **pH:** < 1  
**Specific Gravity (H2O) = 1:** 1.23 **% Volatile:** > 75  
**Vapor Density (Air = 1):** > 1 **Odor Threshold:** N. Av.  
**Evaporation Rate (Butyl Acetate = 1):** N. Av. **Oil/Water Distribution**  
**Solubility in Water:** Complete **Coefficient:** N. Av.  
**Vapor Pressure (MM HG):** N. Av.  
**Melting Point:** N. Ap.

## SECTION X - STABILITY AND REACTIVITY

**Stability:** Unstable: Stable: X  
**Conditions to Avoid:** Avoid contact with metals.  
**Incompatibility (materials to avoid):** Chlorine bleach, oxidizing agents.  
**Hazardous Decomposition or By-products:** N. Av.  
**Hazardous Polymerization:** May occur: Will not occur: X  
**Conditions to Avoid:** N. Ap.

## SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	1mg/m3	1mg/m3	N. Av.	2,140mg/kg (rat, oral)	30 mg/m3 (rat, 8H)

**Teratogen, Mutagen, Reproductive Toxin Status:** N. Av.  
**Toxicologically Synergistic Products:** N. Av.

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicological Information:** N. Av.  
**Chemical Fate Information:** N. Av.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**  
Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred.  
**RCRA Hazard Class:** D002, characteristic corrosive.

## SECTION XIV - TRANSPORT INFORMATION

**Shipping Classification:** Corrosive liquid, Acidic inorganic N.O.S. (sulfuric acid) 8  
**UN Number:** 3264  
**Packing Group:** II

## SECTION XV - PREPARATION DATA

**Prepared By:** Health and Safety Department  
**Telephone Number:** 763-509-7937  
**Date:** 12-5-2008

## SECTION XVI - REGULATORY INFORMATION

**US Federal Regulations**  
**TSCA Status:** All ingredients listed.  
**CERCLA Reportable Quality:**  
**SARA Title III**  
**Section 302 Extremely Hazardous Chemicals:** None  
**Section 311/312 Hazard Category:** Immediate health, chronic health  
**Section 313 Toxic Chemicals:**

## SECTION XVII - OTHER INFORMATION

None  
N. Ap. - Not Applicable; N.Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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