



## SAFETY DATA SHEET

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Manufacturer:</b>	Ver-tech Labs 6801 Bleck Drive Rockford, MN 55373 1-877-866-9742	<b>Product Name:</b>	Citric Clean
		<b>Product Code:</b>	CIT110
		<b>Recommended Use:</b>	Low pH Detergent
		<b>Revision Date:</b>	10/3/2019
<b>Chemical Emergency:</b>	Infotrac: 1-800-535-5053		

**SECTION 2: HAZARDS IDENTIFICATION****GHS Hazard Classification**

Acute Toxicity - Inhalation	Category 3
Skin Corrosion	Category I
Serious Eye Damage	Category I
Carcinogenicity	Category I
Specific Target Organ Toxicity (Single Exposure)	Category I
Specific Target Organ Toxicity (Repeated or Prolonged Exposure)	Category I
Corrosive to Metals	Category I

**Signal Word****DANGER!****Hazard Statements**

Toxic if inhaled  
 Causes severe skin burns and eye damage  
 Causes serious eye damage  
 May cause cancer  
 Causes damage to organs  
 Causes damage to organs through prolonged or repeated exposure  
 May be corrosive to metals

**Precautionary Statements - Prevention**

Do not get in eyes, on skin, or on clothing  
 Wash thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection  
 Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower  
 Wash contaminated clothing before reuse.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up  
 Store in a well ventilated place. Keep container tightly closed  
 Store in a corrosive resistant container with a resistant inner liner

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS**

Product is a mixture according to 29 CFR 1910.1200.

**Hazardous Components**

Hazardous Ingredients	Cas #	Weight %
Sulfuric Acid	7664-93-9	20 - 30%
Citric Acid	77-92-9	0 - 10%
Proprietary Surfactant	Trade Secret	0 - 5%

Specific chemical identity and/or exact percentage of components has been withheld in accordance with a trade secret claim according to Appendix E 29 CFR 1910.1200.

**SECTION 4: FIRST-AID MEASURES****First Aid Measures**

- General Advice:** Immediate attention is required. Contains Strong Acid. Harmful or fatal if swallowed. Causes severe burns to eyes, skin, and respiratory tract. Wear protective clothing when handling this product. Keep out of reach of children. Use with care.
- Eye Contact:** Immediate medical attention is required. Immediately flush with cool running water for at least 15 minutes while holding eyelids apart. Seek medical attention immediately. Do not rub affected area. Remove contact lenses if applicable.
- Skin Contact:** Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
- Ingestion:** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
- Inhalation:** Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Most Important Symptoms and Effects**

- Symptoms:** Severe burns to eyes, skin, and respiratory tract.

**Indication of any immediate medical attention and special treatment needed**

- Note to Physician:** Treat symptomatically as described above.

**SECTION 5: FIRE-FIGHTING MEASURES****Flammable Properties**

- Flammability:** Not considered to be a fire hazard.
- Explosive Prop:** Contact with metals may evolve flammable hydrogen gas; risk of explosion if acid combined with water, organic materials or base solutions in enclosed spaces. Mixing acids of different strengths/concentrations can also pose an explosive risk in an enclosed space/container.

**Extinguishing Media**

- Suitable:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable:** DO NOT USE WATER

**Specific Hazards Arising from Chemical**

- Hazards:** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition may lead to release of irritating and toxic vapors. In the event of fire and/or explosion do not breathe fumes.

**Protective equipment and precautions for fire-fighters**

- Fire-Fight Method:** In the event of a fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Evacuate personnel to safe areas. Isolate hazard area and deny entry. Stay upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes or clothing.

- Environ. Precautions:** Prevent release to the environment if possible. Dike large spills to prevent material from entering streams or sewer systems.
- Clean-Up Method:** Soak-up with inert absorbent material and place into appropriate container for disposal. Clean contaminated area thoroughly with water. Prevent product from entering drains.

### SECTION 7: HANDLING AND STORAGE

- Handling:** Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Wash hands before eating, drinking, or smoking. Remove contaminated clothes and wash before reuse. Use in a ventilated area.
- Storage:** Store in closed containers in cool, dry, well-ventilated area. Avoid overheating or freezing. Keep in properly labeled containers and out of reach of children.
- Incomp. Materials:** Strong acids and bases; oxidizing agents, water, lithium, organic materials, halogens, metals, strong reducing agents.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure Guidelines

Hazardous Chemical	OSHA PEL	ACGIH TLV
Sulfuric Acid	1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Citric Acid	Not Determined	Not Determined
Proprietary Surfactant	Not Determined	Not Determined

#### Appropriate Engineering Controls

- Eng. Controls:** Ensure adequate ventilation, especially in confined areas.

#### Personal Protection Equipment (PPE)

- Eyes:** Recommend goggles or face shield, giving complete protection of eyes.
- Respiratory:** In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection.
- Skin:** Avoid skin contact. Recommend chemical resistant gloves and complete suit protecting against chemicals.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid	<b>Freezing Point:</b>	Not determined
<b>Appearance:</b>	Clear liquid	<b>Boiling Point:</b>	Not determined
<b>Color:</b>	Colorless	<b>Evaporation Rate:</b>	Not determined
<b>Odor:</b>	Extremely acrid	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	No information available	<b>Vapor Density:</b>	Not determined
<b>pH:</b>	0 - 1.0	<b>Relative Density:</b>	Not determined
<b>Flash Point:</b>	Not determined	<b>Flammability:</b>	Not determined
<b>Water Solubility:</b>	Soluble in water	<b>Explosive Limits:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>Part. Coefficient:</b>	Not determined
<b>Specific Gravity:</b>	1.20	<b>Auto-ignition Temp:</b>	Not determined
<b>Melting Point:</b>	Not determined	<b>Decomp. Temp:</b>	Not determined

### SECTION 10: STABILITY AND REACTIVITY

- Stability:** Stable under ordinary conditions of use and storage. Releases heat and toxic, irritating vapors when mixed with water.
- Haz. Decomposition:** Thermal decomposition can lead to release of irritating and toxic gases and vapors.
- Haz. Polymerization:** No information available.
- Incompatibilities:** Strong acids and bases; oxidizing agents, water, lithium, organic materials, halogens, metals, strong reducing agents.
- Conditions to Avoid:** Heat, moisture and incompatibles.

### SECTION 11: TOXICOLOGY INFORMATION

#### Component Information

Hazardous Chemical	LD50 Oral	LD50 Dermal
Sulfuric Acid	2140 mg/kg (rat)	Not Determined
Citric Acid	5400 mg/kg (rat)	Not Determined
Proprietary Surfactant	Not Determined	Not Determined

**Potential Health Effects****Exposure Routes:** Eye Contact, Dermal Contact, Ingestion, Inhalation**Acute Toxicity:****Eyes:** Causes serious eye damage with tearing, redness, and impaired vision.**Skin:** Causes severe skin burns. Symptoms may include pain, redness of skin and possible tissue destruction.**Ingestion:** Harmful if swallowed. Corrosive to mucous membranes, esophagus and stomach.**Inhalation:** Respiratory irritant.**Chronic Effects:** Avoid repeated exposure. May aggravate pre-existing medical conditions including eye, skin and respiratory disorders.**Carcinogenicity:** Sulfuric acid - IARC (International Agency for Research on Cancer) Group 1: Carcinogenic to humans**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Hazardous Chemical	Toxicity to Fish	Toxicity to Invertebrates
Sulfuric Acid	500 mg/l (96 h: Brachydanio rerio)	29 mg/l (24 h: Daphnia)
Citric Acid	440 mg/l (fish)	1534 mg/l (Daphnia)
Proprietary Surfactant	Not Determined	Not Determined

**Environmental Toxicity****Biodegradation:** No information available.**Persistence:** No information available.**Bioaccumulation:** No information available.**Mobility:** No information available.**SECTION 13: DISPOSAL CONSIDERATIONS****Waste Disposal:** Recover or recycle if possible. Disposal should be in compliance with applicable federal, state, and local regulations. Do not dispose of in the environment, in sewage, and/or in drains.**Container:** Drain contaminated container thoroughly. Do not reuse container.**SECTION 14: TRANSPORT INFORMATION***Transport in accordance with all federal, state, and local regulations.***DOT****Proper Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid)**Hazard Class:** 8**UN Number:** UN3264**Packing Group:** II**SECTION 15: REGULATORY INFORMATION****US Federal Regulations****TSCA Status:** All components of this product are listed or exempt from listing on TSCA inventory.**CERCLA Reportable Quantity:** Sulfuric acid: 1000 lbs.**Section 311/312 Hazard Category**

<b>Acute Health Hazard:</b>	7664-93-9	Sulfuric Acid	20 - 30%
<b>Chronic Health Hazard:</b>	7664-93-9	Sulfuric Acid	20 - 30%
<b>Fire Hazard:</b>	No		
<b>Sudden Release of Pressure:</b>	No		
<b>Reactive Hazard:</b>	7664-93-9	Sulfuric Acid	20 - 30%
<b>Section 313 Toxic Chemicals</b>	7664-93-9	Sulfuric Acid	20 - 30%

**SECTION 16: OTHER INFORMATION****Prepared by:** Health and Safety Department**Contact Number:** 1-877-866-9742**Issue Date:** 10/8/2015

**Revision Date:** 10/3/2019

**Revision Note:** Updated formula

**Version:** II

**Disclaimer:** The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. This information is offered for your information, consideration, and investigation. Ver-tech Labs cannot anticipate all conditions under which this information and its product may be used. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. It is the user's responsibility to assume liability for loss, injury, damage or expense due to improper use.

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End of Safety Data Sheet