



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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|--|---|
| Manufacturer: Ver-tech Labs 6801 Bleck Drive Rockford, MN 55373 1-877-866-9742 | Product Name: Citric Clean Product Code: CIT110 Recommended Use: Low pH Detergent Revision Date: 10/8/2015 |
|--|---|

Chemical Emergency: Infotrac: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

| | |
|---|------------|
| Acute Toxicity - Inhalation | Category 2 |
| Skin Corrosion | Category 1 |
| Serious Eye Damage | Category 1 |
| Carcinogenicity | Category 1 |
| Specific Target Organ Toxicity (Single Exposure) | Category 1 |
| Specific Target Organ Toxicity (Repeated or Prolonged Exposure) | Category 1 |
| Corrosive to Metals | Category 1 |

Signal Word

DANGER!



Hazard Statements

Fatal 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 | 25 - 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, CO₂, 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 ³ | 0.2 mg/m ³ |
| 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

| | | | |
|--------------------------|--------------------------|----------------------------|----------------|
| Physical State: | Liquid | Freezing Point: | Not determined |
| Appearance: | Clear liquid | Boiling Point: | Not determined |
| Color: | Colorless | Evaporation Rate: | Not determined |
| Odor: | Extremely acrid | Vapor Pressure: | Not determined |
| Odor Threshold: | No information available | Vapor Density: | Not determined |
| pH: | 0 - 1.0 | Relative Density: | Not determined |
| Flash Point: | Not determined | Flammability: | Not determined |
| Water Solubility: | Soluble in water | Explosive Limits: | Not determined |
| Viscosity: | Not determined | Part. Coefficient: | Not determined |
| Specific Gravity: | 1.22 | Auto-ignition Temp: | Not determined |
| Melting Point: | Not determined | Decomp. Temp: | 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**

| | | | |
|------------------------------------|-----------|---------------|----------|
| Acute Health Hazard: | 7664-93-9 | Sulfuric Acid | 25 - 30% |
| Chronic Health Hazard: | 7664-93-9 | Sulfuric Acid | 25 - 30% |
| Fire Hazard: | No | | |
| Sudden Release of Pressure: | No | | |
| Reactive Hazard: | 7664-93-9 | Sulfuric Acid | 25 - 30% |
| Section 313 Toxic Chemicals | 7664-93-9 | Sulfuric Acid | 25 - 30% |

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

Revision Date: 10/8/2015

Revision Note: MSDS converted to GHS SDS format

Version: 1

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.

End of Safety Data Sheet