



# SAFETY DATA SHEET



## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Chemical Product

Product Name: CitriSan™  
Product Description: A pH reducing agent for agricultural use.  
Chemical Description: Citric Acid, Anhydrous

### Packaged for and Distributed by

O2YS Corporation  
PO Box 2096  
Carrollton, GA 30112  
www.o2yscorp.com

### Emergency Phone Number

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 CCN702825 or +1 703-527-3887 (collect calls accepted)

## SECTION 2. HAZARDS IDENTIFICATION

### Classification in accordance with 29 CFR 1910.1200

Skin Irritant, Category 3  
Eye Irritant, Category 2A  
Dermal Irritation, Category 2B

### GHS LABEL ELEMENTS

#### Symbol(s)



#### Signal Word

WARNING!

#### Hazard Statement(s)

H319 – Causes serious eye irritation  
H316 – Causes mild skin irritation  
H333 – May cause respiratory irritation

#### Precautionary Statement(s)

P264 – Wash skin thoroughly after handling.  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 – If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 – If eye irritation persists: get medical advice/attention.

Refer to Section 4 of this SDS for First Aid information.

#### Other Hazards

None

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

| CAS NO. | COMPONENT   | PERCENT |
|---------|-------------|---------|
| 77-92-9 | Citric Acid | 100     |

## SECTION 4. FIRST AID MEASURES

### Inhalation

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

### Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do, continue rinsing. Get medical attention if irritation develops and persists.

### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms and effects, acute or delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## SECTION 5. FIRE FIGHTING MEASURES

### Flammability

Not combustible/not flammable.

### Extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Do not Use water jet as an extinguisher, as this will spread the fire.



**Hazardous combustion products.**

See hazardous decomposition products.

**Special hazards arising from the Product:**

During fire, gases hazardous to health may be formed.

**Special protective equipment and Precautions for fire-fighters**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid. Use water spray to cool unopened containers.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Keep unnecessary personnel away. Keep people away from and upwind of spill/ leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, See section 8 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**Methods for containment**

Stop the flow of material, if this is without risk.

**Methods for cleaning up**

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, Basements or confined areas. Following product recovery, flush area with water.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Wear appropriate personal Protective equipment. Observe good industrial hygiene practices

**Conditions for safe storage including any incompatibilities**

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials.

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

| Ingredients            | ACGIH TLV |       | OSHA PEL |       | NIOSH |
|------------------------|-----------|-------|----------|-------|-------|
|                        | TWA       | STEL  | PEL      | STEL  | REL   |
| Citric Acid, Anhydrous | N.AV.     | N.AV. | N.AV.    | N.AV. | N.AV. |

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent build-up of any dusts or fumes that may be generated during handling or thermal processing.

**Individual protection measure such as personal protective equipment:**

**Eye protection**

Use tight fitting goggles if dust is generated.

**Hand protection**

Wear appropriate chemical resistant gloves.

**Respiratory protection**

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Protective clothing**

Wear suitable protective clothing.

**Protective footwear**

Wear suitable protective footwear.

**Other**

Eyewash station and safety shower should be made available in the immediate working area. Use good industrial hygiene practices in handling this material.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| <b>Physical state</b>                    | Solid.                                  |
| <b>Odor</b>                              | Odorless. Not available characteristic. |
| <b>Color</b>                             | White. White to off-white.              |
| <b>pH</b>                                | n/a.                                    |
| <b>Boiling point</b>                     | n/a.                                    |
| <b>Melting/ freezing point</b>           | 307.4 °F (153 °C).                      |
| <b>Flash point (°C), method</b>          | Not applicable                          |
| <b>Evaporation rate</b>                  | n/a.                                    |
| <b>Flammability (solids and gases)</b>   | Not available                           |
| <b>Upper flammable limit (% by vol.)</b> | Not applicable                          |
| <b>Lower flammable limit (% by vol.)</b> | Not applicable                          |
| <b>Vapor pressure (mm Hg)</b>            | Not applicable                          |



**Vapor density (air=1)**  
 By volume Not applicable  
 By weight Not applicable

**Specific gravity (water=1)** Not applicable

**Solubility in water (% w/w)** Not available

**Coefficient of water/ oil dist** Not available

**Auto ignition temperature** 1850 °F (1010 °C).

**Decomposition temperature** Not available

**Viscosity**  
 Dynamic viscosity: 6.5 mPa.s@77 °F (25 °C).  
 Kinematic viscosity: 3.904mm<sup>2</sup>/s estimated.

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity**  
 Hazardous polymerization will not occur.

**Chemical stability**  
 Stable under normal conditions.

**Possibility of hazardous Reactions**  
 No dangerous reaction known under conditions of normal use.

**Conditions to avoid**  
 Contact with incompatible materials. Avoid dispersal of dust in the air {i.e., clearing dust surfaces with compressed air}.

**Incompatible materials**  
 Strong oxidizing agents.

**Hazardous products of Decomposition**  
 No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

| Ingredients            | LC <sub>50</sub> | LD <sub>50</sub>  |
|------------------------|------------------|---|
| Citric Acid, Anhydrous | Not available    | >2000 mg/kg, 24 Hours (dermal, rat); 5400 mg/kg (oral, mouse); 2700 mg/kg (oral, rat) |

**Information on likely routes of Entry:**

**Skin contact**  
 No adverse effects due to skin contact are expected.

**Eye contact**  
 Causes serious eye irritation. Dust in the eyes will cause irritation.

**Inhalation**  
 Inhalation of dusts may cause respiratory irritation.

**Ingestion**  
 Expected to be a low ingestion hazard.

**Information on toxicological Effects:**

**Effects of acute exposure**  
 Severe eye irritation. Symptoms may include stinging, tearing, Redness, swelling, and blurred vision. Upper respiratory tract irritation.

**Effects of chronic exposure**  
 Prolonged skin contact may cause temporary irritation.

**Inhalation, chronic**  
 Not Available

**Carcinogenicity of material**  
 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive effects**  
 This product is not expected to cause reproductive or developmental effects.

**Sensitizing capability of material**  
 This product is not expected to cause skin sensitization.

**Synergistic materials**  
 Not Available

**SECTION 12. ECOLOGICAL CONSIDERATIONS**

**Ecotoxicity**  
 No data available.

**Persistence and degradation**  
 No data available.

**Bioaccumulative potential**  
 No data available.

**Mobility**  
 No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**  
 Dispose of in accordance with federal, state and local regulations.



**SECTION 14. TRANSPORT INFORMATION**

**Canada:**  
TDG classification Not regulated.

**USA:**  
D.O.T. Classification: not regulated.  
Proper shipping name Not applicable  
Un number Not applicable  
Packing group Not applicable

Environmental hazards according to the international maritime dangerous goods code and the united nations model regulations: Not available

Special instructions  
Not available

**SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental Regulations specific to the Product  
Not available

**SECTION 16. OTHER INFORMATION**

**SDS History**

**New SDS:** September 12, 2017

**Rev 1:** Added OMRI Listed Logo Nov 9, 2017

CitriSan is exclusively distributed by the O2YS Corporation

End of Sheet

