

**1. Identification**

Product name: HurriClean Automatic Toilet and Tank Cleaner  
Recommended use: Overnight soaking in toilet's water closet  
Use not recommended: General bathroom cleaning.  
Manufacturer's Name:  
Company: Vadco Innovations, LLC  
Address: 4771 Bald Eagle Ave.  
City, state and Zip code: White Bear Lake, MN 55110  
Telephone: 800-699-8232  
Fax: 651-222-9152  
Emergency Number: Chemtrec 800-424-9300  
SDS Code: VP TTC

**2. Hazard(s) identification**

**GHS Classification of the substance or mixture in accordance with 29 CFR 1910:**

Eye irritation (Cat 2A), H319 Causes serious eye irritation.

**GHS Label elements, including precautionary statements:**



Signal word: Warning

**Hazard statements:**

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ 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.

**3. Composition / Information on ingredients**

The chemical name and percentages of all ingredients classified as health hazards and are present at or above their cut off/concentration limits, taken to be 1%.

Component	CAS Number	Wt. % in the product
Citric acid	77-92-9	75-88
Sodium Bicarbonate	144-55-8	12-25
Contaminants of toxicological significance:	None known.	

**4. First-aid measures**

**General advice:**

Move out of the dangerous area. Consult a physician. Show this safety data sheet to attending doctor.

**If inhaled:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes; consult a physician.

**If swallowed:** Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: See product container label.

Indication of any immediate medical attention and special treatment needed: No data.

**5. Firefighting measures****Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:**

Water will activate the intended product reaction and generate carbon dioxide bubbles or gas.

**Advice for firefighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid generating dust. Avoid getting the powder damp or wet as this will initiate generation of carbon dioxide which can accumulate in low areas replacing air.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do. Do not allow product to enter drains.

**Methods and materials for containment and cleaning up:**

Contain spillage, collect and place in container for disposal or re claim.

**For disposal see section 13.**

**7. Handling and storage****Handling:**

Avoid contact with skin and eyes. Avoid inhalation of aerosols or dust.

Provide adequate exhaust ventilation at places where dust is formed.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place.

Open containers should be carefully resealed and kept upright to prevent leakage.

**8. Exposure Controls / Personal Protection**

Information on the system design:

Product is intended for external use only. Do not apply to skin or clothing.

Exposure Limits:

Reference 29CFR 1910.1000 Table Z-1

Component Name, CAS#

OSHA PEL

OSHA STEL

ppm

ppm

Citric acid 77-92-9

NE

Sodium Bicarbonate 144-55-8

NE

NE

NE= Not Established

Contains no substances with occupational exposure limit values.

Retail products in a water soluble protective pouch, and will not contact the skin in normal use.

Personal protective equipment :

Respiratory protection: No requirement anticipated.

Hand protection: Rubber gloves if contact with product or solution is anticipated.

Eye protection: Safety glasses with side-shields if contact with product or solution is anticipated.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures :

Wash hands and face before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

Appearance: White free flowing powder in a plastic pouch.  
 Odor: Nil  
 Odor threshold: Not available.  
 pH-value: Not applicable to powder. Solution is acid during use.  
 Melting point: 153 - 159 °C (307 - 318 °F) - lit. point for citric acid.

Freezing Point: Not available.  
 Initial boiling point: Not available.  
 Flash Point: Non Flammable  
 Evaporation rate: Not applicable  
 Flammability (solid, gas): Not applicable

Explosion limits: Not available.  
 Vapor pressure mm Hg @ 20°C: Not available.  
 Vapor density: (Air=1.0): Not available.  
 Relative density (water=1.00): Not available.  
 Solubility: Very water soluble

Auto-ignition temperature: Not available.  
 Decomposition temperature: Not available.  
 Viscosity: Not applicable

### 10. Stability and reactivity

Product is stable under recommended storage conditions.  
 Carbon dioxide produced if product gets wet.  
 Extended storage in damp or abusive conditions.  
 Hazardous decomposition products: Carbon dioxide produced if product gets wet.

### 11. Toxicological information

Acute Toxicity: No information available for finished product. Likely routes of exposure: Inhalation  
 Delayed, immediate, or chronic effects from short- and long-term exposure: None known. None anticipated.  
 Toxicological information on the main components of the mixture.

	Oral Toxicity LD 50 (Rats) OECD 401	Dermal Toxicity LD 50 (Rabbit) OECD 402	Inhalation	Skin Irritation OECD 404	Eyes Rabbit OECD 405
<b>Citric acid</b>	5,400 mg/kg	>2000 mg/kg	No data	Mild	Serious damage
<b>Sodium Bicarbonate</b>	4,220 mg/kg	No data	No data	Mild	Mild Irritation

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated or potential carcinogen by NTP, IARC, ACGIH or OSHA.

**12. Ecological information**

**Toxicity:** No data available on the mixture. Data on major components follows.

**Citric acid**

Toxicity to fish: mortality LC50 - *Leuciscus idus melanotus* - 440 mg/l - 48 h

Toxicity to daphnia and static test: *Daphnia magna* (Water flea) - 1,535 mg/l - 24 h

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Sodium Bicarbonate:

Daphnids: EC50= 4100 mg/l.

Bluegill: LC50 = 7100 mg/l.

Rainbow Trout: 7700 mg/l.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB assesment: No data available

Other Adverse effects: No data available

**13. Disposal considerations**

Product as supplied is not an unlisted hazardous waste.

Dispose in accordance with local, state and federal regulations.

For US DOT non-bulk shipments:

Domestic transport: Not classified as dangerous goods under transport regulations.

**15. Regulatory information**

Inventory Status: All components are on TSCA.

**U.S. Regulations:**

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: None

SARA (311/312) HAZARD CATEGORIES: None.

Chemical Name

CAS Number

Concentration

None

Not applicable.

Not applicable.

RQ: Not possible in non bulk packaging.

The following product components are cited on the lists below:

Chemical Name

CAS Number

List Citations

Citric acid

77-92-9

PA, NJ

California Prop. 65 ingredients:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. Other information**

SDS Preparation date: June 2, 2014

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	No	XXX	XXX	
HMIS Hazard ratings: Health 1 Fire 0 Instability 1 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

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Note: The information in this SDS was obtained from current reputable and competent sources.

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