

Infosafe No™ VARIC                      Issue Date : May 2016                      ISSUED by SUSTAINA

Product Name **ACTIVATE CITRIC DESCALER**

Classified as hazardous

## 1. Identification

**GHS Product Identifier**                      ACTIVATE CITRIC DESCALER

**Company Name**                              Sustainable Cleaning Solutions Pty Ltd

**Address**                                        6 Lakewood Boulevard Braeside  
VIC 3195 Australia

**Telephone/Fax Number**                      Tel: (03) 9580 2499  
Fax: (03) 9580 2488

**Emergency phone number**                      0417 807 780

**Recommended use of the chemical and restrictions on use**                      Organic acid descaler for the removal of mineral salt deposits.

## 2. Hazard Identification

**GHS classification of the substance/mixture**                      Eye Damage/Irritation: Category 2A

**Signal Word (s)**                                WARNING

**Hazard Statement (s)**                              H319 Causes serious eye irritation.

**Precautionary statement – General**                      P102 Keep out of reach of children.  
P103 Read label before use.

**Pictogram (s)**                                      Exclamation mark



**Precautionary statement – Prevention**                      P264 Wash contaminated skin thoroughly after handling

**Precautionary statement – Response**                      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.

**Precautionary statement – Storage**                      P404 Store in a closed container.

**Precautionary statement – Disposal**                      P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Citric Acid	77-92-9	>99

## 4. First-aid measures

**Inhalation**                                      If dust is inhaled:  
1. Remove from contaminated area.  
2. Encourage patient to blow nose to ensure clear passage of breathing.  
3. If irritation or discomfort persists seek medical attention.

**Ingestion**                                      If swallowed do NOT induce vomiting.  
If vomiting occurs:  
1. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  
2. Observe the patient carefully.  
3. Never give liquid to a person showing signs of being sleepy or with



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	reduced awareness; i.e. becoming unconscious. 4. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. 5. Seek medical advice.
<b>Skin</b>	Brush off dust. If skin or hair contact occurs: 1. Flush skin and hair with running water (and soap if available). 2. Seek medical attention in event of irritation.
<b>Eye contact</b>	If this product comes in contact with the eyes: 1. Immediately hold eyelids apart and flush the eye continuously with running water. 2. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. 3. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. 4. Transport to hospital or doctor without delay. 5. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
<b>First Aid Facilities</b>	Eye wash station and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of patient.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.
<b>Specific Methods</b>	<ul style="list-style-type: none"><li>- Alert Fire Brigade and tell them location and nature of hazard.</li><li>- Wear breathing apparatus plus protective gloves for fire only.</li><li>- Prevent, by any means available, spillage from entering drains or watercourses.</li><li>- Use fire fighting procedures suitable for surrounding area.</li><li>- DO NOT approach containers suspected to be hot.</li><li>- Cool fire exposed containers with water spray from a protected location.</li><li>- If safe to do so, remove containers from path of fire.</li><li>- Equipment should be thoroughly decontaminated after use.</li></ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"><li>- Solid which exhibits difficult combustion or is difficult to ignite.</li><li>- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited</li><li>- Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.</li><li>- Build-up of electrostatic charge may be prevented by bonding and grounding.</li><li>- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.</li></ul>
<b>Decomposition Temp.</b>	>170C

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	<b>MINOR SPILLS</b> <ul style="list-style-type: none"><li>- Clean up all spills immediately.</li><li>- Avoid contact with skin and eyes.</li><li>- Wear protective clothing, gloves, safety glasses and dust respirator.</li><li>- Use dry clean up procedures and avoid generating dust.</li><li>- Sweep up or</li><li>- Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li><li>- Place in clean drum then flush area with water.</li></ul> <b>MAJOR SPILLS</b> <ul style="list-style-type: none"><li>- Clear area of personnel and move upwind.</li><li>- Alert Fire Brigade and tell them location and nature of hazard.</li></ul>
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- Control personal contact by using protective equipment and dust respirator.
- Prevent spillage from entering drains, sewers or water courses.
- Recover product wherever possible. Avoid generating dust.
- Sweep / shovel up.
- If required, wet with water to prevent dusting.
- Put residues in labelled plastic bags or other containers for disposal.
- Wash area down with large quantity of water and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

#### DISPOSAL CONSIDERATIONS

- Consult manufacturer for recycling options and recycle where possible .
- Consult State Land Waste Management Authority for disposal.
- Incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

## 7. Handling and storage

### Precautions for Safe Handling

- Avoid generating and breathing dust.
- ' Limit all unnecessary personal contact.
  - ' Wear protective clothing when risk of exposure occurs.
  - Use in a well-ventilated area.
  - Avoid contact with incompatible materials.
  - When handling, DO NOT eat, drink or smoke.
  - Keep containers securely sealed when not in use.
  - Avoid physical damage to containers.
  - Always wash hands with soap and water after handling.
  - Work clothes should be laundered separately.
  - Use good occupational work practice.
  - Observe manufacturer's storing and handling recommendations.
  - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

#### SUITABLE CONTAINER

Multi ply paper bag with sealed plastic liner or heavy gauge plastic bag.  
NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer.

### Conditions for safe storage, including any incompatibilities

- Keep dry.
- Store in original containers.
  - Keep containers securely sealed.
  - Store in a cool, dry, well-ventilated area.
  - Store away from incompatible materials and foodstuff containers.
  - Protect containers against physical damage and check regularly for leaks.
  - Observe manufacturer's storing and handling recommendations.

## 8. Exposure controls/personal protection

### Occupational exposure limit values

TLV TWA: 10 mg/m<sup>3</sup> (Value for particulate matter containing no asbestos and <1% crystalline silica, Inhalable fraction) [ACGIH]  
TLV TWA: 3 mg/m<sup>3</sup> (Value for particulate matter containing no asbestos and <1% crystalline silica, Respirable fraction) [ACGIH]  
Dusts not otherwise classified, as inspirable dust;  
ES TWA: 10 mg/m<sup>3</sup>

### Appropriate engineering controls

Use in a well-ventilated area. None required when handling small quantities.  
OTHERWISE:  

- Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
- Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.

### Personal Protective Equipment

Wear PVC gloves, overalls and eye protection. If risk of splashes into eyes, wear safety glasses with side shields. Wear dust mask if exposure standard is likely to be exceeded. Always maintain a high level of personal hygiene when using this product. That is wash hands before eating, drinking, smoking



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or using the toilet.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	White crystalline powder.
<b>Decomposition Temperature</b>	>170C
<b>Melting Point</b>	153C
<b>Boiling Point</b>	Decomposes.
<b>Solubility in Water</b>	730g/L @ 25C
<b>Specific Gravity</b>	1.54
<b>pH</b>	2 (1% solution)
<b>Flash Point</b>	N/A
<b>Flammability</b>	Non flammable.
<b>Auto-Ignition Temperature</b>	345C

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Heat, flames and other ignition sources.
<b>Incompatible Materials</b>	Oxidising agents
<b>Hazardous Decomposition Products</b>	If involved in a fire or heated to decomposition it emits carbon oxides, acrid smoke and irritating fumes. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 citric acid: 3000 mg/kg oral, rat
<b>Ingestion</b>	Excessive amounts or overuse may bring irritant and/or harmful effects. Ingestion of low-molecular organic acid solutions may produce spontaneous haemorrhaging, intravascular coagulation, gastrointestinal damage and oesophageal and pyloric stricture. Considered an unlikely route of entry in commercial/industrial environments.
<b>Inhalation</b>	Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.
<b>Skin</b>	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
<b>Eye</b>	Dilute solutions of low-molecular organic acids cause conjunctival hyperaemia, prompt pain and corneal injury. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
<b>Chronic Effects</b>	Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. Skin contact does not normally present a hazard, though it is always possible that occasionally individuals may be found who react to substances usually regarded as inert. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.



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## 12. Ecological information

**Persistence and degradability**                      Readily biodegradable.  
**Mobility**    Readily dilutes in water  
**Environmental Protection**                      Avoid contaminating waterways, drains, sewers, or ground.

## 13. Disposal considerations

**Waste Disposal**                      Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.

## 14. Transport information

**Transport Information**                      Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. Regulatory information

**Poisons Schedule**                      Not Scheduled  
**AICS (Australia)**                      All components listed.

## 16. Other Information

**Signature of Preparer/Data Service**                      Technical Manager 03 9580 2499

**Technical Contact Numbers**                      Emergency Advice All Hours:  
General Manager Tel: 0417 807 780 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs

**Other Information**                      This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.  
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