


Infosafe No™ VARIC	Issue Date : January 2021	ISSUED by SUSTAINA
Product Name ACTIVATE CITRIC DESCALE		

1. Identification

GHS Product Identifier	ACTIVATE CITRIC DESCALE
Company Name	Sustainable Cleaning Solutions Pty Ltd
Address	6 Lakewood Boulevard Braeside VIC 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 reduced awareness; i.e. becoming unconscious. 4. Give water to rinse out mouth, then provide liquid slowly and as much as



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Skin	casualty can comfortably drink. 5. Seek medical advice. 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.
Eye contact	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.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. Fire-fighting measures

Suitable extinguishing media	Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.
Specific Methods	<ul style="list-style-type: none">- Alert Fire Brigade and tell them location and nature of hazard.- Wear breathing apparatus plus protective gloves for fire only.- Prevent, by any means available, spillage from entering drains or watercourses.- Use fire fighting procedures suitable for surrounding area.- DO NOT approach containers suspected to be hot.- Cool fire exposed containers with water spray from a protected location.- If safe to do so, remove containers from path of fire.- Equipment should be thoroughly decontaminated after use.
Specific hazards arising from the chemical	<ul style="list-style-type: none">- Solid which exhibits difficult combustion or is difficult to ignite.- 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- Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.- Build-up of electrostatic charge may be prevented by bonding and grounding.- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.
Decomposition Temp.	>170C

6. Accidental release measures

Spills & Disposal	MINOR SPILLS <ul style="list-style-type: none">- Clean up all spills immediately.- Avoid contact with skin and eyes.- Wear protective clothing, gloves, safety glasses and dust respirator.- Use dry clean up procedures and avoid generating dust.- Sweep up or- Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).- Place in clean drum then flush area with water. MAJOR SPILLS <ul style="list-style-type: none">- Clear area of personnel and move upwind.- Alert Fire Brigade and tell them location and nature of hazard.- Control personal contact by using protective equipment and dust respirator.
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- 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/m³ (Value for particulate matter containing no asbestos and <1% crystalline silica, Inhalable fraction) [ACGIH]
 TLV TWA: 3 mg/m³ (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/m³

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 or using the toilet.

9. Physical and chemical properties



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Product Name **ACTIVATE CITRIC DESCALE**

Form	Solid
Appearance	White crystalline powder.
Decomposition Temperature	>170C
Melting Point	153C
Boiling Point	Decomposes.
Solubility in Water	730g/L @ 25C
Specific Gravity	1.5
pH	2 (1% solution)
Flash Point	N/A
Flammability	Non flammable.
Auto-Ignition Temperature	345C

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, flames and other ignition sources.
Incompatible Materials	Metal nitrates (potentially explosive reaction). Alkali carbonates and bicarbonates. Potassium tartrate. Will corrode copper, zinc, aluminum and their alloys.
Hazardous Decomposition Products	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

Acute Toxicity - Oral	LD50 citric acid: 3000 mg/kg oral, rat
Ingestion	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.
Inhalation	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.
Skin	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.
Eye	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.
Chronic Effects	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.

12. Ecological information



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Ecological Information The product components are not classified as environmentally hazardous.
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

Date of preparation or last revision of SDS 21/01/2021

Literature References Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons
Australian Code for the Transport of Dangerous Goods by Road & Rail
Globally Harmonised System of classification and labelling of chemicals
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.
...End Of MSDS...

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