

# MAX-IN® CALCIUM

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MAX-IN® CALCIUM  
**Other identifier:** Calcium chloride fertilizer  
**Recommended use:** Fertilizer  
**Restrictions on use:** Agriculture and Turf  
**Registration Holder:** Winfield Solutions Registration Holdings (Pty) Ltd.  
 Co Reg No 2015/312008/07  
 PO Box 10413  
 Aston Manor, 1630, South Africa  
**Telephone:** (011) 3962233  
**Fax:** (011) 3964666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Distributor:** Villa Crop Protection (Pty) Ltd.  
 PO Box 10413  
 Aston Manor, 1630, South Africa  
**Telephone:** (011) 3962233  
**Fax:** (011) 3964666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Emergency telephone numbers:**  
**24 Hr Transport / Spill emergency no:**  
 EnviroSure. +27 31 205 4918  
 (Hazcall24) +27 86 044 4411  
 (Client: Villa Crop Protection)  
 Griffon Poison Information Centre +27 82 446 8946  
 (Client: Villa Crop Protection)  
**Poisoning Emergency telephone numbers:**  
 Griffon Poison Information Centre +27 82 446 8946  
 Poisons Information Centre +27 861 555 777  
**Villa Crop Protection Emergency number:**  
**National Safety, Health and Environmental Manager:**  
 +27 63 698 0668

## 2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
<b>Health</b>		
Oral	Acute tox. 5	H303
Dermal	Skin Irrit. 3A	H316
Eye	Eye Irrit. 2B	H320
Inhalation	Resp. Sens. 1	H334

**The most important adverse effects:**  
**Physiochemical effects:**  
 None known.  
**Human health effects:**  
 Causes eye irritation.

## Label elements:



**Signal word:** Warning.  
**Hazard statements:**  
 H303: May be harmful if swallowed.  
 H316: Causes mild skin irritation.  
 H320: Causes eye irritation.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
**Precautionary statements:**  
 P261: Avoid breathing mist, vapours and spray.  
 P264: Wash hands and face thoroughly after handling.  
 P284: In case of inadequate ventilation wear respiratory protection.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337/313: If eye irritation persists: Get medical advice.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER.  
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.  
**Special labelling of certain mixtures:**  
 None known.  
**Other hazards:**  
 None known.  
**Toxicity:**  
 Classification according to GHS: Unclassified.  
 Classification according to WHO: Unclassified.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture.

### Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Calcium chloride	10043-52-4	27-28	Acute Tox. 5 (H303) Skin Irrit. 3A (H316) Eye Irrit. 2B (H320) Resp. Sens. 1 (H334)

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### 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor if symptoms persist.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

**Skin:** Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

**Eyes:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

**Ingestion:** Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Anticipated acute effects:**

May be harmful if swallowed.

Causes mild skin irritation.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Anticipated delayed effects:** None known.

**Most important symptoms/effects:**

**Eyes:** Causes mild but reversible eye irritation.

**Skin:** Short term exposure is not anticipated to cause skin irritation. Long-term exposure may cause redness and irritation.

**Inhalation:** May cause minor irritation of the upper respiratory tract.

**Ingestion:** May cause gastric upset if swallowed.

**Advice to physician:** There is no specific antidote known. Treat symptomatically and supportively.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, water spray or foam.

**Unsuitable Extinguishing Media:** Water jet.

**Specific hazards:** Toxic chlorine compounds, oxides of carbon, nitrogen, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

**Special Fire Fighting Procedures:** Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not scatter the burning material. Contain water used for fire fighting for later disposal. Do not allow spilled product to enter sewers or waterways.

**Personal protective equipment:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin and eyes. Do not breathe in fumes. Ventilate area of spill or leak, especially in contained areas.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures:** Alert firefighting personnel, evacuate unprotected personnel and animals.

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water.

**Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth.

**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** May be harmful if swallowed. Avoid contact with eyes. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**General occupational hygiene:** Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

**Storage:**

**Conditions for safe storage:** Keep out of reach of unauthorised persons, children and animals. Store in its original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excessive heat. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Plastic bottles.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration:** No occupational exposure limits has been determined for the significant ingredients in this product.

**Engineering Controls:**

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

**Personal Protective Equipment:**

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed.

**Hand Protection:** Wear chemically resistant gloves when handling this product.

**Eye Protection:** To avoid contact with eyes, wear chemical safety goggles or safety glasses and full face shield. Contact lenses are not protective eye devices.

**Skin and Body Protection:** Wear protective clothing e.g. coveralls to prevent skin contact with this mixture.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this mixture; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid.

**Odour:** Not available.

**pH:** 4.0

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not applicable.

**Flammability:** Not Flammable.

**Upper/lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** Not applicable.

**Relative Vapour Density:** Not available.

**Density:** 1.29 g/ml

**Solubility:** Miscible.

**n-octanol/water partition coefficient:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable for 2 years at ambient temperature and pressure, under normal storage and

handling conditions, if containers are tightly sealed. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

**Reactivity:** None known.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** Avoid excessive heat and freezing temperatures.

**Incompatible Materials:** Strong bases and acids.

**Hazardous Decomposition Products:** Toxic chlorine compounds, oxides of carbon, nitrogen, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

**Calculated according to GHS.**

**Oral LD<sub>50</sub>:** 3620 mg/kg

**Skin Irritation/Corrosion:** Causes mild skin irritation.

**Eye Irritation:** Causes eye irritation.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Reproductive cell mutagenicity:** Not available.

**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.

**Specific target organ toxicity – single exposure:** Not available.

**Specific target organ toxicity – repeated exposure:** Not available.

**Aspiration hazard:** Not available

**Chronic Effects:** Not available.

**POTENTIAL ADVERSE EFFECTS:**

**Inhalation:** May cause minor irritation of the upper respiratory tract.

**Skin contact: Skin:** Short term exposure is not anticipated to cause skin irritation. Long-term exposure may cause redness and irritation.

**Eye contact:** Causes mild but reversible eye irritation.

**Ingestion:** May cause gastric upset if swallowed.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY DATA:**

Not determined.

**ENVIRONMENTAL EFFECTS:**

**Persistence and degradability:** Not determined.

**Bio-accumulative Potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** Not determined.

## 13. DISPOSAL CONSIDERATIONS

**Waste:** Open dumping or burning of this product is prohibited. Waste resulting from the use of this product

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cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Container:** Emptied flasks/containers retain vapour and product residues. Observe all labelled safeguards until container/bottle is destroyed.

Do not re-use the empty container/flask for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

### 14. TRANSPORT INFORMATION

**UN Number:** Not Regulated

Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes, e.g. RID (rail), ADR (road) and IMDG (sea).

**Special/Environmental Precautions:** None known.

**Transport in bulk** (according to MARPOL 73/78, Annex II and the IBC code): Not available.

**Transport:** Wedge drums tightly to avoid movement.

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**

OHSA 1993 Regulations for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** None.

**Chemical Safety Assessment carried out?** No

### 16. OTHER INFORMATION

**Packaging:** 500 ml, 1, 5, 10, 20, 25 l plastic bottles.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is

accepted for errors and omissions or the consequence thereof.

### END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.