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## SAFETY DATA SHEET

### Section 1 : IDENTIFICATION

<b>Product identifier</b>	<b>CALCIUM X-TRA</b>
<b>Other means of identification</b>	Water solution of calcium complexes derived from calcium chloride, and other ingredients.
<b>Recommended use and restrictions on use</b>	Foliar spray for certain crops requiring calcium supplements.
<b>Details of manufacturer</b>	Growth Agriculture Pty Ltd. PO Box 444, Wee Waa, NSW 2388, Australia. Freecall 1800 440 438 Phone (02) 6795 3787 Fax (02) 6795 3707
<b>Emergency phone number</b>	(Australia) 1800 440 438 or Poisons Information Centre (Australia) 13 11 26 Poisons Information Centre (NZ) 0800 764 766

### Section 2 : HAZARDS IDENTIFICATION

<b>Classification of the hazardous chemical</b>	Not a Dangerous Good according to the Australian Dangerous Goods [ADG] Code 7 <sup>th</sup> edition. GHS Classification for calcium chloride : Eye irritation - hazard category 2.
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**Label elements, including precautionary statements**



**WARNING**

**EYE IRRITATION** - Hazard category: 2A

Signal word: Warning.

Hazard statement: H319 Causes serious eye irritation.

**PRECAUTIONARY STATEMENTS:**

P264 Wash affected body parts thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if



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present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Other hazards which do not result in classification**

Avoid contact with eyes.

### Section 3 : COMPOSITION AND INFORMATION ON INGREDIENTS


<b>Identity of chemical ingredients</b>	Contains calcium chloride. Contains water. Also contains other non-hazardous ingredients.
<b>CAS Number and other unique identifiers</b>	10043-52-4 <i>Calcium chloride</i> . 7732-18-5 <i>Water</i> .
<b>Concentration of ingredients</b>	Calcium chloride ~8.5%. equiv ~3.1% elemental Ca. Other non-hazardous ingredients <10%. Water to 100%.

### Section 4 : FIRST AID MEASURES

<b>Description of necessary first aid measures</b>	If swallowed, do not induce vomiting. For advice, contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor at once.  If in eyes, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.  Irritation is unlikely upon contact with skin. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.
<b>Symptoms caused by exposure</b>	<b>Eyes:</b> Serious irritation may occur. <b>Skin:</b> product is believed to be mildly irritating, but is unlikely to cause anything more than mild discomfort, which should disappear once contact ceases. <b>Ingestion:</b> Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.



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**Medical attention and special treatment**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The contact numbers are in Section 1 in this SDS. Have this SDS with you when you call.

**Section 5 : FIRE FIGHTING MEASURES**

**Suitable extinguishing media**

Not combustible. Use extinguishing media suited to burning materials.

**Specific hazards arising from the chemical**

There is no risk of explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product are not expected to be hazardous or harmful.

**Special protective equipment and precautions for fire fighters**

No specific protective equipment required.

HAZCHEM code: Not applicable

**Section 6 : ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Usually, no respirator is necessary when using this product.

**Environmental precautions**

In the event of a major spill, prevent spillage from entering drains or water-courses. If a significant quantity of material enters drains, advise emergency services.


This product is unlikely to adversely effect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.

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

Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. Absorb onto sand, vermiculite or other suitable absorbent material. If the spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Collect recoverable product and place into labelled containers for recycling or salvage, and dispose of promptly.

After spills, wash the area and prevent runoff from entering local drains. If a significant quantity of material enters drains, advise emergency services.

**NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.

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**Section 7 : HANDLING & STORAGE**

**Precautions for safe handling**      Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.

Carefully read other sections of this SDS for details on personal protective measures, and make sure that those measures are followed. Also check the measures for storage.

Avoid contact or contamination of product with incompatible materials (if any) listed in this SDS.

**Conditions for safe storage, including any incompatibilities**      Store packages of this product in a cool, dry and well-ventilated place out of direct sunlight. Store the product in the original package. Do not store material that has been mixed with water.

Avoid contact or contamination of product with incompatible materials (if any) listed in this SDS.

This product has no particular storage incompatibilities.

***NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.*

**Section 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control parameters – exposure standards, biological monitoring**      No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised. Exposure limits have not been set by SWA for any of the significant ingredients in this product.

Given the lack of exposure limit data and the likely low toxicity as vapour, no recommendations can be provided on biological monitoring.

**Appropriate engineering controls**      Use in a cool, well-ventilated space. Have spillage kits available on site.

**Personal protective equipment (PPE)**      No special equipment is normally needed for the routine handling this product. However good practice suggests that you should have eye protection available in the form of safety glasses, goggles or a face mask, as this product contains substances known to cause eye irritation. The use of gloves is optional as no special risk is evident. If substantial skin contact occurs, wash with clean water.



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## Section 9 : PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colourless liquid.
<b>Odour</b>	No odour.
<b>Odour threshold</b>	No data available.
<b>pH</b>	No data available. Expected to be close to neutral.
<b>Melting point/Freezing point</b>	<0 °C.
<b>Boiling point and boiling range</b>	Approximately 100 °C. (100 kPa).
<b>Flash point</b>	Not flammable, not combustible.
<b>Evaporation rate</b>	No data available.
<b>Flammability</b>	Not flammable, not combustible.
<b>Upper &amp; lower flammability limits</b>	Not flammable, not combustible.
<b>Vapour pressure</b>	2.3 kPa at 20°C (water component).
<b>Vapour density</b>	No data available.
<b>Relative density</b>	No data available.
<b>Solubility</b>	Completely soluble in water
<b>Partition coefficient (n.octonol:water)</b>	This product is an aqueous solution / suspension.
<b>Auto-ignition temperature</b>	Will not auto-ignite.
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	As for water.
<b>Specific heat value</b>	As for water.
<b>Particle size</b>	This product is an aqueous solution / suspension.
<b>Volatile organic compounds content</b>	No data available.
<b>% volatile</b>	No data available.



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**Saturated vapour concentration** No data available.

**Release of invisible flammable vapours and gases** No data available, but none likely.

**ADDITIONAL PARAMETERS**

**Shape and aspect ratio** Not applicable.

**Crystallinity** Not applicable.

**Dustiness** Not applicable.

**Surface area** Not applicable.

**Surface area** Not applicable.

**Degree of aggregation or agglomeration** Not applicable.

**Ionisation (redox potential)** No data available.

**Biodurability or biopersistance** No data available.

**Section 10 : STABILITY & REACTIVITY**

**Reactivity** This product is unlikely to react under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.  
This product will not undergo polymerisation reactions.

**Chemical stability** This product is unlikely to decompose under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.

**Conditions to avoid** Protect this product from light. Store in closed original container, in a dry, cool, well ventilated area out of direct sunlight.

**Incompatible materials and possible hazardous reactions** This product has no particular incompatibilities.

**Hazardous decomposition products** No significant decomposition products.



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## Section 11 : TOXICOLOGICAL INFORMATION

<b>Information on routes of exposure</b>	Eye, skin and mucous membranes.
<b>Symptoms related to exposure</b>	Known to cause eye irritation.
<b>Numerical measures of toxicity</b>	None known
<b>Immediate, delayed and chronic health effects from exposure</b>	Mild irritation expected with short-term exposure to skin and eyes, however this irritation should disappear once contact ceases. No data available on the effects of chronic skin or eye exposure.
<b>Exposure levels</b>	Exposure limits have not been established by SWA for any of the significant ingredients in this product.
<b>Data limitations</b>	No data available.

## Section 12 : ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	This product is unlikely to adversely affect the environment. Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No specific data but being an aqueous solution, this product is likely to be mobile.
<b>Other adverse effects</b>	No data available.



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**Section 13 : DISPOSAL CONSIDERATIONS**

<b>Safe handling and disposal methods</b>	This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Note that product properties may have been changed in use; significantly altering its suitability for landfill. Always check local regulations.
<b>Disposal of any contaminated packaging</b>	Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.
<b>Environmental regulations</b>	Do not dispose into sewers or waterways.

***NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.*

**Section 14 : TRANSPORT INFORMATION**

<b>UN Number</b>	No UN number allocated.
<b>Proper shipping name</b>	Not specified in the Australian Dangerous Goods Code 7 <sup>th</sup> edition.
<b>Transport hazard class</b>	No data provided in the Australian Dangerous Goods Code 7 <sup>th</sup> edition.
<b>Packaging group</b>	No data provided in the Australian Dangerous Goods Code 7 <sup>th</sup> edition.
<b>Environmental hazards</b>	No data is available from literature.
<b>Special precautions during transport</b>	This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.
<b>Hazchem code</b>	No data provided in the Australian Dangerous Goods Code 7 <sup>th</sup> edition.



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### Section 15 : REGULATORY INFORMATION

**Safety, health and environmental regulations specific for the product** See precautionary statements in section 2.

**Poisons schedule number** Not a scheduled poison.

### Section 16 : OTHER INFORMATION

**Date of preparation or review** January 2015

**Key abbreviations or acronyms used** Where relevant, full wording followed by [square bracketing] abbreviations are provided in this SDS.

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**END OF DOCUMENT**