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SAFETY DATA SHEET

Section 1 : IDENTIFICATION

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

Section 2 : HAZARDS IDENTIFICATION

Classification of the hazardous chemical	Not a Dangerous Good according to the Australian Dangerous Goods [ADG] Code 7 th 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 present and easy to do. Continue rinsing.



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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

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

Section 4 : FIRST AID MEASURES

Description of necessary first aid measures	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.
Symptoms caused by exposure	Eyes: Serious irritation may occur. Skin: product is believed to be mildly irritating, but is unlikely to cause anything more than mild discomfort, which should disappear once contact ceases. Ingestion: 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.

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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

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

Information on routes of exposure	Eye, skin and mucous membranes.
Symptoms related to exposure	Known to cause eye irritation.
Numerical measures of toxicity	None known
Immediate, delayed and chronic health effects from exposure	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.
Exposure levels	Exposure limits have not been established by SWA for any of the significant ingredients in this product.
Data limitations	No data available.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity	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.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No specific data but being an aqueous solution, this product is likely to be mobile.
Other adverse effects	No data available.



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Section 13 : DISPOSAL CONSIDERATIONS

Safe handling and disposal methods

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.

Disposal of any contaminated packaging

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.

Environmental regulations

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

UN Number

No UN number allocated.

Proper shipping name

Not specified in the Australian Dangerous Goods Code 7th edition.

Transport hazard class

No data provided in the Australian Dangerous Goods Code 7th edition.

Packaging group

No data provided in the Australian Dangerous Goods Code 7th edition.

Environmental hazards

No data is available from literature.

Special precautions during transport

This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Hazchem code

No data provided in the Australian Dangerous Goods Code 7th 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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