	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	1 of 10

SAFETY DATA SHEET

Section 1 : IDENTIFICATION

Product identifier	GROWTH ZINC X-TRA
Other means of identification	Water solution of Zinc complexes derived from zinc sulfate and other ingredients.
Recommended use and restrictions on use	Foliar spray for certain crops that require zinc 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	Growth Agriculture 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. Classified as hazardous according to the criteria of SWA. Classified as hazardous under GHS hazardous chemical information list.
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Label elements, including precautionary statements



ACUTE TOXICITY – ORAL - Hazard category: 4


Signal word: Warning.

Hazard statement: H302 Harmful if swallowed

PRECAUTIONARY STATEMENTS:

P264 Wash affected body parts thoroughly after handling.

P270 do not eat, drink, or smoke when using this product.

	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	2 of 10

P301+P312 IF SWALLOWED: call a poison centre or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local regulations.



SKIN IRRITATION - Hazard category: 1

Signal word: Danger.

Hazard statement: H318 Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

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.


P310 Immediately call a POISON CENTER or doctor/physician.

Other hazards which do not result in classification

Environmental hazard. Very toxic to aquatic life with long lasting effects.

Section 3 : COMPOSITION AND INFORMATION ON INGREDIENTS

Identity of chemical ingredients	Contains Zinc sulfate Contains water Contains other non-hazardous ingredients
CAS Number and other unique identifiers	7733-02-0 <i>Zinc sulfate.</i> 7732-18-5 <i>Water.</i>
Concentration of ingredients	Zinc sulfate 12.5%. Other non-hazardous materials <10% Water to 100%.

	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	3 of 10

Section 4 : FIRST AID MEASURES

Description of necessary first aid measures

If product is swallowed or gets in mouth, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor.

If product gets in eyes, quickly and gently blot or brush away product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until a few minutes after irritation has ceased, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical advice.

If skin contact occurs, quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). Completely decontaminate clothing, shoes and leather goods before reuse or discard. If irritation persists, repeat flushing and obtain medical advice.

If inhalation occurs, first aid is not generally required. If in doubt, contact a poisons information centre or call a doctor.


Symptoms caused by exposure

Eyes: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Skin: Product should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Ingestion: This product, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Inhalation: Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	4 of 10

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

This product is likely to decompose only after heating to dryness, followed by further strong heating.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Special protective equipment and precautions for fire fighters

Full protective equipment recommended.

HAZCHEM code: Not applicable

Section 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear full protective clothing including eye/face protection. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Usually, no respirator is necessary when using this product though a respirator may be required where mists of product are generated.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where product is being used.

Environmental precautions

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

Zinc sulfate is highly toxic to aquatic life.

Methods and materials for containment and cleaning up

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate.



Product	Growth Zinc X-Tra
Document Reference	SDS_10_2 Growth Ag Zinc X-tra
Revised	January 2020
To be Revised	December 2024
Page	5 of 10

Recycle containers wherever possible after careful cleaning.

Usually, no respirator is necessary when using this product. However, if there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator.

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

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.

Conditions for safe storage, including any incompatibilities

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Incompatibilities: bases, reducing agents, zinc, tin, aluminium and their alloys.

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

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.

Appropriate engineering controls

Use in a cool, well-ventilated space. Have spillage kits available on site. Use adequate exhaust ventilation to avoid inhalation of product mists and vapours.



Product	Growth Zinc X-Tra
Document Reference	SDS_10_2 Growth Ag Zinc X-tra
Revised	January 2020
To be Revised	December 2024
Page	6 of 10

Personal protective equipment (PPE)

No special equipment is normally needed for the routine handling of 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. Do not wear contact lenses.

When handling bulk amounts of this product, wear full protective clothing including eye/face protection. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Usually, no respirator is necessary when using this product though a respirator may be required where mists of product are generated

Section 9 : PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear liquid.
Odour	No odour.
Odour threshold	No data available.
pH	No data available
Melting point/Freezing point	Approx 0 °C.
Boiling point	Approximately 100 °C. (100 kPa).
Flash point	Not flammable, not combustible.
Evaporation rate	No data available.
Flammability	Not flammable.
Upper & lower flammability limits	Not flammable.
Vapour pressure	No data available.
Vapour density	No data available.
Relative density	1.26
Solubility	Completely soluble in water
Partition coefficient (n.octonol:water)	No data available.



Product	Growth Zinc X-Tra
Document Reference	SDS_10_2 Growth Ag Zinc X-tra
Revised	January 2020
To be Revised	December 2024
Page	7 of 10


Auto-ignition temperature	Will not auto-ignite.
Decomposition temperature	No data available.
Viscosity	No data available.
Specific heat value	No data available.
Particle size	This product is an aqueous solution / suspension.
Volatile organic compounds content	No data available.
% volatile	No data available.
Saturated vapour concentration	No data available.
Release of invisible flammable vapours and gases	No data available.

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	<p>This product is unlikely to react under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.</p> <p>This product will not undergo polymerisation reactions.</p>
Chemical stability	<p>This product is stable and unlikely to decompose under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.</p>

	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	8 of 10

Conditions to avoid	Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.
Incompatible materials and possible hazardous reactions	Avoid contact with bases, reducing agents, zinc, tin, aluminium and their alloys.
Hazardous decomposition products	This product is likely to decompose only after heating to dryness, followed by further strong heating. Oxides of sulfur and other sulfur compounds will have a foul odour and form acidic products when wet. Sulfur dioxide is a respiratory hazard even at low concentrations.

Section 11 : TOXICOLOGICAL INFORMATION

Information on routes of exposure	Eye, skin and mucous membranes.
Symptoms related to exposure	<p>Eyes: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.</p> <p>Skin: Product should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.</p> <p>Ingestion: This product, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.</p> <p>Inhalation: Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.</p>
Numerical measures of toxicity	No data available
Immediate, delayed and chronic health effects from exposure	<p>Short term effects as listed above.</p> <p>No data available for health effects associated with long-term exposure.</p>

	Product	Growth Zinc X-Tra
	Document Reference	SDS_10_2 Growth Ag Zinc X-tra
	Revised	January 2020
	To be Revised	December 2024
	Page	9 of 10

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 No data available

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.

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. Do not dispose into sewers or waterways.

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.
Zinc sulfate extremely toxic to aquatic systems with long-lasting effects.

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



Product	Growth Zinc X-Tra
Document Reference	SDS_10_2 Growth Ag Zinc X-tra
Revised	January 2020
To be Revised	December 2024
Page	10 of 10

Section 14 : TRANSPORT INFORMATION

UN Number	No UN number allocated.
Proper shipping name	Not specified in the Australian Dangerous Goods Code 7 th edition.
International Air Transport Association (IATA)	Not regulated as per IATA
Packaging group	No data provided in the Australian Dangerous Goods Code 7 th edition.
Environmental hazards	No data available.
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 7 th edition.

Section 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product	See precautionary statements in section 2.
Poisons schedule number	S6

Section 16 : OTHER INFORMATION

Date of preparation or review	February 2015
Key abbreviations or acronyms used	Where relevant, full wording followed by [square bracketing] abbreviations are provided in this SDS.

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