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SAFETY DATA SHEET

Section 1 : IDENTIFICATION

Product identifier	BORON X-TRA
Other means of identification	Water solution of boron and other compounds.
Recommended use and restrictions on use	Boron nutrient preparation for use as directed on product label.
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 boric acid : Reproductive toxicity - hazard category 1B.
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Label elements, including precautionary statements



HEALTH HAZARD – boric acid

TOXIC TO REPRODUCTION - Hazard category: 1B

Signal word: Danger.

Hazard statement: H360 May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.



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P308+P313 If exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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

Other hazards which do not result in classification

Avoid contact with skin and eyes.

DO NOT SWALLOW.

Section 3 : COMPOSITION AND INFORMATION ON INGREDIENTS

Identity of chemical ingredients

Contains boric acid.

Contains water.

Contains chlorine (at a low concentration).

Also contains non-plant food ingredients: Fulvic acids, enzymes, organic complexing agents, natural plant extracts.

CAS Number and other unique identifiers

10043-35-3 *Boric acid.*

7782-50-5 *Chlorine.*

7732-18-5 *Water.*

Concentration of ingredients

Boric acid providing elemental boron 5.5% w/v of product.

Chlorine 0.2% w/v of product.

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, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Symptoms caused by exposure

None specified.

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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.

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

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

Special protective equipment and precautions for fire fighters

Protective suit and breathing apparatus.

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, nitrile. Usually, no respirator is necessary when using this product.

Remove any and all ignition sources and ensure adequate ventilation.

Environmental precautions


In the event of a major spill, prevent spillage from entering drains or water-courses.

Methods and materials for containment and cleaning up

Stop any leak if safe to do so, and contain the spill. 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 This product is a scheduled poison. Observe all relevant regulations regarding storage of this class of poison.

Store packages of this product in a cool, dry and well-ventilated place out of direct sunlight. Store the product in the original package.

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

GHS precautionary statement (boric acid) P405 Store locked up.

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 Use in a cool, well-ventilated space.

Exposure limits have not been set by SWA for boric acid

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. 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	Tan coloured liquid.
Odour	No odour.
Odour threshold	No data available.
pH	No data available.
Melting point/Freezing point	Approximately 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	2.37 kPa at 20°C.
Vapour density	No data available.
Relative density	1.17 approx.
Solubility	Completely soluble in water - This product is an aqueous solution.
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.
Saturated vapour concentration	No data available.

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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 biopersistence 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 This product is likely to decompose only after heating to dryness, followed by further strong heating. May liberate boron and other compounds.


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Section 11 : TOXICOLOGICAL INFORMATION

Information on routes of exposure	Eye, skin and mucous membranes.
Symptoms related to exposure	Direct contact with the surface of eyes or mucous membranes are treatable by irrigation.
Numerical measures of toxicity	Acute toxicity ORAL: LD50 rat 3,500 - 4,100 mg/kg. Acute toxicity DERMAL: LD50 rabbit 2,000 mg/kg.
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 to quantities of boric acid have been associated with reproductive health hazards, resulting in products containing boric acid from 5.5% being categorised as a 1B health hazard under the GHS. See section 2 of this SDS for further information.
Exposure levels	Products containing over 5.5% boric acid are classified as a 1B health hazard – toxic to reproduction.
Data limitations	No data available.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity	This product will not cause ecological problems because it does not enter biological systems.
Persistence and degradability	This product does not degrade naturally.
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.
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 7 th edition.
Transport hazard class	No data provided in the Australian Dangerous Goods Code 7 th edition.
Packaging group	No data provided in the Australian Dangerous Goods Code 7 th edition.
Environmental hazards	No data is available from literature.
Special precautions during transport	None known.
Hazchem code	No data provided in the Australian Dangerous Goods Code 7 th edition.
International Air Transport Association (IATA)	Not regulated as per IATA



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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 Schedule 5.

Section 16 : OTHER INFORMATION

Date of preparation or review December 2014

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

END OF DOCUMENT