



Safety Data Sheet

according to WHS Regulations

Printing date 01.03.2022

Revision: 01.03.2022

1 Identification

Product Name: Ultrasol® Tomato Hydroponica 7.5-9-38.9 + 3.5MgO+TE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Fertiliser

Details of Manufacturer or Importer:

Australand Agriculture Pty. Ltd.
21 / 110 Inspiration Drive
Wangara, WA 6065

Phone Number: +61 8 93039638

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame over circle

Oxidising Solids 3

H272 May intensify fire; oxidizer.



Health hazard

Toxic To Reproduction 1B H360 May damage fertility or the unborn child.

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidizer.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.

P405 Store locked up.

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

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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Hazardous Components:			
CAS: 10043-35-3	Boric acid	 Toxic To Reproduction 1B, H360	0.1-5.5%
Non Hazardous Components:			
CAS: 7778-80-5	Potassium sulfate		3-65%

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with plenty of water. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor:

Treat symptomatically. In the event of inhalation of decomposition products, symptoms may be delayed.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions. Water spray for small fires. For large fires flood with abundant water.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include nitrogen oxides, nitrites, potassium oxides, phosphorus oxides, and toxic fumes.

Product is non-flammable. Product is an oxidiser and may intensify a fire.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 1Z

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Avoid generating dust. No open flames, sparks, or smoking. Avoid contact with eyes. Do not breathe dust.

Environmental Precautions:

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

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Methods and Materials for Containment and Cleaning Up:

Take up mechanically (sweeping, shovelling) and place into a suitable container for disposal. Do not absorb solutions with saw-dust or other combustible absorbent materials.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Avoid contact with eyes. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. Keep away from flammable or combustible materials, reducing agents and strong acids.

8 Exposure Controls and Personal Protection

Exposure Standards:

Nuisance dust:

TWA - 10 mg/m³ (total dust)TWA - 2 mg/m³ (inspirable dust)**Engineering Controls:**

Ensure adequate ventilation of the working area keeping airborne concentrations below occupational exposure limits. Provide local exhaust for contaminant extraction if natural ventilation is insufficient.

Respiratory Protection:

Use an approved dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Crystalline powder
Colour:	White
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available

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Flash Point:	No information available
Flammability:	Non-flammable, however, product is an oxidiser and may intensify a fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available.
Vapour Pressure:	No information available
Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: May cause or intensify fire; oxidiser.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Heat, hot surfaces, sparks, open flames and other sources of ignition.

Incompatible Materials: Flammable materials, combustible materials, strong acids, and reducing agents.

Hazardous Decomposition Products:

Nitrogen oxides, nitrites, potassium oxides, phosphorus oxides, and toxic fumes.

11 Toxicological Information

Toxicity:

LD50/LC50 Values:

CAS: 10043-35-3 Boric acid

Oral	LD50	>2,660 mg/kg (rat)
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Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: May cause skin irritation.

Eye: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

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Aspiration Hazard: Based on classification principles, the classification criteria are not met.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 10043-35-3 Boric acid

EC50/48 h 133 mg/l (daphnia)

LC50/96 h 279 mg/l (fish)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** Low bioaccumulation potential.**Mobility in Soil:** Expected to be highly mobile in soil.**Other adverse effects:** May cause eutrophication at very low concentration.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number**ADG, IMDG, IATA**

UN1486

Proper Shipping Name**ADG, IMDG, IATA**

POTASSIUM NITRATE (MIXTURE)

Dangerous Goods Class**ADG Class:**

5.1

Packing Group:**ADG, IMDG, IATA**

III

Marine pollutant:

No

EMS Number:

F-A,S-Q

Hazchem Code:

1Z

Special Provisions:

IMDG: 964, 967

Excepted quantities (EQ):

E1

Limited Quantities:

5 kg

Packagings & IBCs - Packing Instruction:

P002, IBC08, LP02

Packagings & IBCs - Special Packing Provisions: B3**Portable Tanks & Bulk Containers - Instructions:** T1, BK1, BK2, BK3**Portable Tanks & Bulk Containers - Special****Provisions:**

TP33

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15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 01.03.2022**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au
Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Solids 3: Oxidising solids, Hazard Category 3

Toxic To Reproduction 1B: Reproductive toxicity – Category 1B

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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