

SECTION 1: Identification

Product Name: TOPBUXUS Health-Mix

Other Means of Identification: HM10, HM40, HM100, HM800

Recommended use: Foliar fertiliser for Buxus

Contact details of Importer:	Location	Phone number
TOPBUXUS Australia Pty Ltd 10 Gladstone PL South Melbourne 3205	Australia	03 9943 3034

TOPBUXUS New Zealand 145 Dominion Road Mount Eden Auckland 1024	New Zealand	09 573 3007
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Emergency contact details:

For emergencies only, DO NOT contact these companies for general product advice.

Organisation	Location	Phone number
Poisons Information Centre	Australia	131 126
National Poisons Centre	New Zealand	0800 764766

SECTION 2: Hazards identification

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poison Schedule: 5 Caution

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

Hazard symbols



Signal word:

: Warning
Acute Toxicity Oral Category 4
Hazardous to aquatic environment Acute Category 1
Hazardous to aquatic environment Chronic Category 1

Hazard Statement

: H302: Harmful if swallowed
H319: Causes serious eye irritation
H401: Toxic to aquatic life

Prevention

: P102: Keep out of reach of children
P262: Do not get in eyes, on skin, or on clothing
P264: Wash contacted areas thoroughly after handling
P273: Avoid release to the environment

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Response	P281: Use personal protective equipment as required : P352: Wash with plenty of water P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Storage	: P410: Protect from sunlight. P402+P404: Store in a dry place. Store in a closed container.
Disposal	: P501: Dispose of contents/container in accordance with local / regional / national / international regulations.

SECTION 3: Composition/information on ingredients

Ingredients

Name	Product identifier	Proportion
Citric Acid	(CAS No.) 77-92-9	10-20 %
Copper Oxochloride	(CAS No.) 1332-40-7	<10 %
Other non hazardous ingredients	secret	to 100%

SECTION 4: First aid measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Skin Contact: Gently brush away excess particles. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed. Seek medical attention if symptoms persist.

Eye Contact: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Never give anything by the mouth to an unconscious person. Seek medical advice if needed.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory tract irritation.

Skin Contact: May cause skin irritation, redness and rash.

Eye Contact: May cause eye irritation, redness and lachrymation.

Ingestion: Harmful if swallowed.

SECTION 5: Firefighting measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Suitable Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials.

Specific hazards arising from the chemical: The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia. Decomposition products may include the following materials: nitrogen oxides, sulfur oxides, phosphorus oxides, halogenated compounds, metal oxide/oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Remark: Prevent fire extinguishing water from entering drains. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Flash point:	Does not burn.
Upper Flammability Limit:	Does not burn.
Lower Flammability Limit:	Does not burn.
Autoignition temperature:	Not applicable - does not burn.
Flammability Class:	Does not burn.

SECTION 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. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep granules into a pile and shovel into designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Avoid generating dust. Provide adequate ventilation.

SECTION 7: Handling and storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Protect this product from light. 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 "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

SECTION 8: Exposure controls/personal protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits TWA (mg/m3) STEL (mg/m3)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.

Respiratory Protection: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.

SECTION 9: Physical and chemical properties

Appearance:

Form:	Solid
Colour:	Green
Odour:	Mild odour

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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
Flash Point:	No information available
Flammability:	Product is not flammable
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
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble in water
Partition Coefficient (n-octanol/water):	No information available

SECTION 10: Stability and reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

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

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

Incompatibilities: strong acids.

Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11: Toxicological information

Toxicity :

Citric Acid (CAS: 77-92-9)	
LD50 oral mouse	5,400 mg/kg
LD50 dermal rat	>2,000 mg/kg
Copper Oxychloride (CAS: 1332-40-7)	
LD50 oral rat	>950 mg/kg
LD50 dermal rat	>2,000 mg/kg
LC50 inhalation rat	2.83 mg/l

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: May cause skin irritation, redness and rash.

Eye: May cause eye irritation, redness and lachrymation.

Ingestion: Harmful if swallowed.

Skin Corrosion / Irritation: No known significant effects or critical hazards.

Serious Eye Damage / Irritation: No known significant effects or critical hazards.

Respiratory or Skin Sensitisation: No known significant effects or critical hazards.

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Germ Cell Mutagenicity: No known significant effects or critical hazards.

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

Reproductive Toxicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity (STOT) - Single Exposure:

No known significant effects or critical hazards.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

No known significant effects or critical hazards.

Aspiration Hazard: No known significant effects or critical hazards.

SECTION 12: Ecological information

Ecotoxicity:

Aquatic toxicity:

This product is toxic to aquatic organisms.

Copper Oxochloride (CAS: 1332-40-7)	
EC50/48 h daphnia	0.5 mg/l
EC50/48 h invertebrata	0.29 mg/l
LC50/96 h fish	>43.8 mg/l

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

General Information: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill: Contact a specialist disposal company or the local waste regulator for advice.

SECTION 14: Transport information

This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

SECTION 15: Regulatory information

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

Basel Convention (Hazardous Waste)

International Convention for the Prevention of Pollution from Ships (MARPOL)

All significant components of this product are compliant with the Australian Inventory of Chemical Substances (AICS) regulations.

New Zealand HSNO Approval Code:

Based on available information, classified as a Fertiliser (Subsidiary Hazard) Group Standard HSR002571 according to the Hazardous Substances and New Organisms Act 1996.

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

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SECTION 16: Other information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS No.	Chemical Abstracts Service Registry Number
EC50	EC stands for effective concentration. EC50 is the median effective concentration of a substance in an environmental medium expected to produce a certain effect in 50% of test in a given population under a defined set of conditions.
HSNO	Hazardous Substance and New Organism
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IMSBC	International Maritime Solid Bulk Cargoes
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NZIoC	New Zealand Inventory of Chemicals
SCBA	Self Contained Breathing Apparatus
STEL	Short Term Exposure Limits
STOT	Specific Target Organ Toxicity
SWA	Safe Work Australia, formerly ASCC and NOHSC
TWA	Time Weighted Average

Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation. **DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.