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Section 1: SUBSTANCE AND SUPPLIER DETAILS

GHS Product Identifier: Tomato Trace Element Mix

Horticentre - Tomato Trace Element Mix Other Name[s]:

Proper Shipping Name: Tomato Trace Element Mix

Chemical Formula: Composition

Product Code: M-H1305, M-H1305-10

CAS Number: n/a

PRODUCT USE

Recommended Use: **Crop Support**

SUPPLIER DETAILS

Company Name: Image Holdings Limited

50 Central Park Drive, Henderson, Auckland 0610, New Zealand Address:

Telephone: 0064 9 834 3783

Email: info@imageholdings.co.nz Website: www.imageholdings.co.nz

EMERGENCY TELEPHONE NUMBERS

0800 POISON (0800 764 766) National Poisons Information Centre:

Emergency Telephone Number: 0800 764 766 0064 21 934 058 Other Emergency Numbers:

Transport Emergency: Tell operator what service is needed: Fire, Ambulance, Police.

Please ensure that the limitations of this Safety Data Sheet are referred to as set out in Section 16: Other Information at the end of this document.

Section 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR COMPOSITION

Transport Classification: Not Classified as a Dangerous Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land

Hazard Classifications Classified as hazardous according to criteria in the Hazardous Substances & New Organisms Act 2015

Classified as Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling

of Chemicals [GHS Rev.7]

HSNO Approval Number:

HSR002571 **HSNO Classifications:** 6.1D: Substances that are acutely toxic - Harmful.

6.8B: Substances that are suspected human reproductive or developmental toxicants

6.9A: Substances that are toxic to human target organs or systems 6.9B: Substances that are harmful to human target organs or systems

8.34 Substances that are corrosive to ocular tissue

Substances that are harmful in the aquatic environment 9.1C: 9.3C: Substances that are harmful to terrestrial vertebrates

GHS Classification: Acute Toxicity [Oral] - Category 4

Serious eye damage/irritation - Category 1

Reproductive toxicity - Category 2

Specific target organ toxicity [single exposure] - Category 1 Specific target organ toxicity [repeated exposure] - Category 2 Hazardous to the aquatic environment, long-term [Chronic] - Category 3

Hazardous to terrestrial vertebrates

HAZARD STATEMENT[S] H302: Harmful if swallowed.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

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H370: Causes damage to organs.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

H431: Very toxic to terrestrial vertebrates

Product Name: **Tomato Trace Element Mix**

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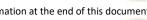








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GHS PICTOGRAMS:

DANGER Signal Word:

Pictogram:













PRECAUTIONARY STATEMENT(s):

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

> P260: Do not breathe dust.

P264: Wash hands thoroughly after handling.

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

P273: Avoid release to the environment.

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

P310: Immediately call a POISON CENTER/doctor Response:

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see label).

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. If exposed or concerned: Call a POISON CENTER/ doctor P308+P311:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do - continue rinsing.

P405: Storage: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulation. Disposal:

Other Hazards: None known

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	CONCENTRATION	HAZARD CODES
Iron Chelate 13%	15708-41-5	74.0 %	6.1D, 9.1C
Borax Pentahydrate	12179-04-3	13.5 %	6.1D, 6.4A, 6.8B
Manganese Sulphate	10034-96-5	7.9 %	6.1D, 6.9A, 9.1B, 9.3C
Zinc Sulphate	7746-20-0	3.2 %	6.1D, 8.3A, 6.9B, 9.1A, 9.3C
Copper Sulphate	7758-99-8	1.0 %	6.1D, 6.3A, 6.4A, 9.1A, 9.3C
Sodium Molybdate	10102-40-6	0.4 %	6.3B, 6.4A
Balance of ingredients are non-hazardous or hazardous in less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitisers)		Balance	1 ()75

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely

Section 4: FIRST AID MEASURES

FIRST AID MEASURES

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

Inhalation:

If Inhalation of product occurs:

- Remove patient from area of exposure avoid becoming a casualty.
- Remove contaminated clothing and loosen remaining clothing
- Allow patient to assume comfortable position and keep warm and rested.
- Provide emergency airway support if required
- If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.
- Seek medical assistance.

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Ingestion: If ingestion occurs:

• DO NOT induce vomiting.

- Clean mouth with Water and then drink plenty of water, seek medical attention.
- For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or Doctor
- Never give anything by mouth to an unconscious person.
- Seek medical assistance.

Skin: If skin contact occurs:

- Remove all contaminated clothing immediately
- Wash affected area thoroughly with water
- Seek medical assistance if irritation occurs.

If this product comes in contact with eyes:

- Immediately hold eyelids open 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 to
 prevent permanent injury
- Remove contact lenses if present and easy to do.
- Seek medical assistance

Advice to Doctor: Treat symptomatically. Refer to National Poisons & Hazardous Chemicals Information Centre 0800 764 766

Section 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Eve:

If material is involved in fire use:

- There is not restriction on type of media which may be used
- Use extinguishing media suitable for surrounding fire based on surrounding materials
- Use Carbon dioxide or suitable dry chemical extinguisher
- Water Fog or Water Spray
- Do not use water jets

SPECIFIC HAZARDS

Hazards of Combustion:

Decomposes on heating and may emit toxic fumes including those of Carbon Dioxide and Oxides of Coper and Zinc

Advice to Firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard
- Wear self-contained breathing apparatus plus suitable protective clothing
- Prevent, spillage from entering drains and water courses
- Use firefighting procedures suitable for surrounding area
- Protective Equipment: Fire fighters should wear a positive pressure self-contained breathing apparatus [SCBA]
 - protective firefighting clothing [includes firefighting helmet, coat, trousers, boots and gloves]
 - chemical splash suit

Fire/Explosion Hazard:

Decomposition may produce toxic fumes of: Carbon Dioxide and Oxides of Coper and Zinc

Hazchem Code:

Not regulated

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear suitable protective clothing, See section 8

ENVIRONMENTAL PRECAUTIONS

Do not allow container or product to enter drains, sewers, streams or ponds. If contamination occurs advise local emergency services See Section 12

SPILLS & CONTAINMENT

Minor Spill

- Potential Environmental Hazard Contain Spill
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.
- Avoid accidents, clean up immediately.
- Increase ventilation.
- Avoid walking through spilled product.
- Isolate the danger area.
- Use clean, non-sparking tools and equipment.
- Mechanically collect as much of the spill as possible
- Shut off all possible sources of ignition.

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Major Spill

- Medium Hazard
- Potential Environmental Hazard Contain Spill
- CAUTION: Advise personnel in area / surrounding area
- Contact Emergency Services [111], inform them of location and nature of hazard
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.

DISPOSAL

- Reuse if possible
- Spill on areas other than pavement, dirt or sand may be handled by removing the affected soils and placing into approved containers
- Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste.
- Dispose of in accordance with local and national regulations

Section 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS

Safe Handling

- Ensure an eye bath and safety shower are available and ready to use.
- Avoid Personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Use in well ventilated area
- Keep out of reach of children

Certified Handler: Not required Tracking: Not required **Record Keeping:** Not required

STORAGE PRECAUTIONS

Suitable Container:

Storage Incompatibility:

Store in manufacturers original packaging

Safe Storage:

- Store in original containers
- Keep containers closed when not in use
- Store in a cool, dry, well ventilated place
- Keep out of direct sunlight.
- Store away from sources of heat or ignition.
- Check regularly for spills.
- Store away from incompatible materials, foodstuff and containers
- Strong Acids
- Other Information: Dispose of in accordance with regulatory authority, local and national guidelines
 - Always read label before use.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

CONTROL PARAMETERS

Ingredient Data:

Source	Ingredient	TWA	STEL	Notes
NZ Workplace Exposure	Borax Pentahydrate	1 mg/m ³		
Standards [WES]	Manganese and inorganic compounds	0.15 mg/m ³		\ //
	Copper Sulphate	1 mg/m ³		
Particulates not otherwise	classified	10mg/m ³	Not Available	Inspirable dust
Particulates not otherwise	classified	3mg/m³	Not Available	Dust

EXPOSURE CONTROLS

Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Welldesigned engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection

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Personal Protection Equipment:











Protection Protection

Protective Clothing

Respirator Protection

Foot Protection

Eye & Face Protection: • Chemical goggles

Restrict use of contact lenses.

Skin Protection: • Wear chemical resistant gloves

Always wash hands before eating, drinking or using facilities

Protective footwear

Respiratory Protection: Particulate. [AS/NZ 1716, EN 143:2000 & 149:001, ANSI Z88 or national equivalent]

Body Protection:

Overalls
Barrier cream
Other Protection:

Eyewash Unit



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder **Physical State:** Solid Odour: Odourless **Odour Threshold:** n/a pH [1% Solution]: n/a Melting Point / Freezing Point: n/a Initial Boiling Point / Range: n/a Flash Point [°C]: n/a **Evaporation Rate:** n/a Flammability: n/a Upper Explosive Limit [%]: Not explosive Lower Explosive Limit [%]: Not explosive Vapour Density [Air=1]: n/a

Relative Density [Water=1]: n/a

Auto Ignition Temp [°C]: Not self-igniting

Decomposition Temp: n/a

Viscosity [cSt]: n/a

Molecular Weight [g/mol]: n/a

Explosive Properties: Not explosive
Oxidising Properties: Not oxidising
Surface Tension [mN/m]: n/a
Volatile Component [%vol]: n/a

n/a

n/a

n/a

Gas Group: VOC g/I:



Section 10: STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions of use, storage and temperature

Negligible

Soluble

Reactivity:

Conditions to avoid:

Incompatibility:

None known

Moisture.

Avoid strong acids

Hazardous Decomposition: May release Carbon Dioxide, Oxides of Coper and Zinc on decomposition



Section 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS

Vapour Pressure [kPa]:

Solubility in water [g/l]:

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing large quantities may cause irritation to stomach and large intestine

Inhalation: Dust may cause irritation to respiratory tract

Skin: May be irritating to skin

Eye: May cause irreversible eye damage / irritation

Chronic Effects: No data available

Acute Toxicity:

Skin Irritation/ Corrosion:

Serious Eye Damage/Irritation:

Respiratory / Skin Sensitiser:

Mutagenic:

Carcinogenic:

Reproductive Effects:

Specific Target Organ – SE:

Specific Target Organ – RE:

Aspiration Hazard:

**

Data available but does not fill criteria for classification

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TOXICOLOGICAL DATA:

No LD50 data available for the product. However, Exposure Standard(s) for constituent(s):

Product	Toxicity	Irritation	
Borax Pentahydrate	Oral [Rat] LD50 3200 to 3500 mg.kg	No data available	
Manganese Sulphate	Oral [Rat] LD50 21050 mg/kg	No data available	
Zinc Sulphate	Oral [Rat] LD50 574 to 2949 mg/kg	Irritation to skin	
Copper Sulphate	Oral [Rat] LD50 472.5 mg/kg	Skin [Rabbit] >8.0 g/kg	
	Inhalation [Rat] LC50 >2.95 mg/l/h	Skiii [Kabbit] >0.0 g/ kg	
Sodium Molybdate	Oral [Rat] LD50 4000 mg/kg		
Sodium Molybuate	Inhalation [Rat] LC50 >2.08 mg/l [4 hr]		



Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways

Bioaccumulation No data available

ECOLOGICAL DATA: No LC50 data available for the product. However, Exposure Standard(s) for constituent(s):

Product	Endpoint	Duration [hr]	Species	Value
	LC50	96	Fish	79.7 B/I
Borax Pentahydrate	LC50	48	Daphnia	133 mg B/l
	EC50	72	Algae	40 mg B/I
	LC50	96	Fish	2.4 mg/l
Zinc Sulphate	EC50	48	D <mark>a</mark> phnia Dania	0.56 mg/l
	EC50	72	Algae	0.05 – 0.36 mg/l
Copper Sulphate	LC50	96 hr	Fish	0.571 mg/l

Section 13: DISPOSAL INFORMATION

Disposal:

Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers must be either rendered totally unusable, or if to be recycled for use, decontaminated by rinsing thoroughly with water. Rinsing water needs to be disposed of carefully

The following controls should be considered:

Reduction

Reuse

Recycle

Disposal

Disposal of materials or packaging must be carried out in accordance with Hazardous Substances Regulations 2001

Section 14: TRANSPORT INFORMATION

LABELLING REQUIREMENTS

Label: None

Marine Pollutant: Potential Marine Pollutant

Hazchem: Not regulated

LAND / AIR / SEA TRANSPORT Not regulated for transport of Dangerous Goods [UN]

Section 15: REGULATORY INFORMATION

REGULATIONS

EPA Approval Number: HSR002571

Group Standard: Fertilizers [Subsidiary Hazard] Group Standard 2020

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HSNO Classification: 6.1D: Substances that are acutely toxic - Harmful.

> 6.8B: Substances that are suspected human reproductive or developmental toxicants

6.9A: Substances that are toxic to human target organs or systems 6.9B: Substances that are harmful to human target organs or systems

8.3A: Substances that are corrosive to ocular tissue

9.1C: Substances that are harmful in the aquatic environment 9.3C: Substances that are harmful to terrestrial vertebrates

LOCATION TEST CERTIFICATE

Hazard Class	Closed Container Controls	Open Container Controls
Not required	Not required	Not required



TRACKING REQUIREMENTS

Not applicable

Section 16: OTHER INFORMATION

ABBREVIATIONS

Agricultural Compounds and Veterinary Medicines ACVM: Approval Code: HSNO Approval number for Group Standard **CAS Number** Unique Chemical Abstracts Service Registry Number

FC50: Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test population [e.g. daphnia, fish species]

FPA: Environmental Protection Authority [New Zealand]

Globally Harmonised System of Classification and Labelling of Chemicals GHS:

HAZCHEM Code: Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters

HSNO: Hazardous Substances and New Organisms [Act and Regulations]

HSR Number: HSNO Approval number for Group Standard IARC: International Agency for Research on Cancer LEL/UEL: Lower Explosive Limit / Upper Explosive Limit

LD50: Lethal Dose 50% - concentration in air which is fatal to 50% of a test population [Rats]

LC50: Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population [Rats]

NOFC: No Observed Effect Concentration NZIoC: New Zealand Inventory of Chemicals

SDS [MSDS]: Safety Data Sheet or Material Safety Data Sheet

Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in STEL:

any 15-minute period, provided the TWA is not exceeded

TWA: Time Weighted Average – generally referred to WEES average over typical workday [8 hours, 5 days a week]. The WES relates to exposure

that has been measured by personal monitoring using procedures that gather air samples in the workers breathing zone.

UN Number:

WES: Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during

work hours

REFERENCES

Unless otherwise stated comes from the EPA HSNO chemical classification information database [CCID] Data:

Controls: EPA notices www.epa.govt.nz, Health & Safety at Work [Hazardous Substances] Regulations 2017, www.legislatin.govt.nz WES: The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their website - www.worksafe.govt.nz

Other References: Suppliers SDS, EU ECHA, ingredients SDS's

This Safety Data Sheet was updated on the date shown at the bottom right of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the given Review Date [bottom right of pages]. No liability is assumed for damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

END OF SAFETY DATA SHEET

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