

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Hatuma Citrus Fertiliser**  
 Product Use: Citrus Fertiliser  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Hatuma**  
 Address: Maharakeke Road RD1  
 Waipukurau

Telephone: +64 6 858-8567  
 Fax Number: +64 6 858-8018

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 26 February 2018

### Section 2. Hazards Identification

**This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017**

**EPA Approval No: Fertilisers (subsidiary) – HSR002571**

#### Pictograms



Irritant    Chronic    Corrosive    Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1E (Resp)	H335	May cause respiratory irritation.	STOT SE 3
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1D	H401	Toxic to aquatic life.	Aquatic Acute 2
9.2C	H423	Harmful to the soil environment.	
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust and fumes.
P264	Wash hands thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Superphosphate	40 - 50	--
Ammonium sulphate	30 - 40	7783-20-2
Muriate of Potash	5 - 10	7447-40-7
Iron sulphate	5 - 10	7782-63-0
Non hazardous	To bal	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Immediately call a POISON CENTER or doctor/physician.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

### Most important symptoms and effects, both acute and delayed

Symptoms:

Product Name: Citrus Fertiliser  
Date of SDS: 26 February 2018

Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

**Ingestion:** Harmful if swallowed.  
**Inhalation:** May cause respiratory irritation.  
**Skin:** Causes skin irritation.  
**Eye:** Causes serious eye damage.

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	Oxides of carbon, possible toxic fumes
<b>Suitable Extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
<b>HAZCHEM CODE</b>	<b>2Z</b>

**Section 6. Accidental Release Measures**

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Do not allow to enter into surface water or drains.

Avoid generating dust. Wear appropriate protective clothing to prevent skin and eye contact. Avoid breathing in dust. Contain spill and sweep or vacuum up, collect spilled product and place in properly labelled, sealable container for reuse or disposal. Dispose according to Local Regulations.

**Section 7. Handling and Storage**

**Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.
- Avoid breathing dust and fumes.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Store only in original container.

**Section 8 Exposure Controls / Personal Protection**

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>

No ingredients have exposure limits.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard. Applies to any 15- Minute period in the working*

day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

### Engineering Controls

Handle in a well-ventilated area; ensure ventilation is adequate to maintain air concentrations below exposure standards. If dust is generated use local extraction to control. Avoid inhalation of dust. Keep containers closed when not in use.

### Personal Protection Equipment

<b>Eyes</b>	Tightly fitting safety glasses with side shields. Avoid wearing contact lenses.
<b>Skin</b>	Wear rubber gloves. Wear protective clothing.
<b>Respiratory</b>	Use respiratory protection in areas of poor ventilation.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Divided solid, particles of various sizes; slightly mixes with water
<b>Colour</b>	Light grey with grey/brown crystals and granulated brown powder.
<b>Odour</b>	None
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density</b>	Not available
<b>Water Solubility</b>	Partly Miscible
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Divided solid, particles of varying sizes

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Extreme temperatures, excessive moisture
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	Oxides of carbon, possible toxic fumes

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye</b>	Causes serious eye damage.
<b>Skin</b>	Causes skin irritation.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.  
9.2C = Harmful to the soil environment.  
9.3C = Harmful to terrestrial vertebrates.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

Ammonium Sulphate (Cas 7783-20-2)

9.1D (fish) SPECIES: Catla catla

TYPE OF EXPOSURE:

DURATION: 96 hr

ENDPOINT: LC50

VALUE: 48 mg/l

REFERENCE SOURCE: BASF AG Ludwigshafen (36) Konar S.K. and Sarkar S.K.: Geobis 10, 6-9, (1983). [IUCLID 2000]

Biocumulative: No

Rapidly Degradable: Yes

9.1D (crustacean) SPECIES: Crangon crangon (Crustacea)

TYPE OF EXPOSURE:

DURATION: 96 hr

ENDPOINT: EC50

VALUE: 81 - 130 mg/l

REFERENCE SOURCE: BASF AG Ludwigshafen Salzwasser (47) Franklin, F.L.: Min. Agric., Fish. Food, Tech. Rep. No.61, Lowestoft, UK, 8 p., (1980). [IUCLID 2000]

Biocumulative: No

Rapidly Degradable: Yes

9.3C SPECIES: Mouse

ENDPOINT: LD50

VALUE: 640 mg/kg

REFERENCE SOURCE: REPSOL QUIMICA, S.A. MADRID (66) Gigena Sanitaria. 53(2),93,88. [IUCLID 2000]

Do not allow to enter waterways

## Section 13. Disposal Considerations

### Disposal Method:

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

Ensure any container holding waste product, rinsate, or contaminated spill media is labelled "Hazardous Waste - Ecotoxic" and that the label also has the waste type identifier and the business name, address, and phone number.

**Precautions and methods to avoid:**

Do not allow to enter into surface water or drains where possible.

<b>Section 14</b>	<b>Transport Information</b>
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**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

<b>Section 15</b>	<b>Regulatory Information</b>
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EPA Approval Code: Fertilisers (subsidiary) – HSR002571

HSNO Classification: 6.1D(oral), 6.1E(Resp), 6.3A, 8.3A, 9.1D, 9.2C, 9.3C

HSNO Controls:

Trigger quantities for this substance:

	<b>Trigger Quantity</b>
Certified Handlers	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg (8.3A)
Emergency Response Plan	1000kg (6.1D)
Secondary Containment	1000kg (6.1D)
Restriction of Use	Only use for the intended purpose.

<b>Section 16</b>	<b>Other Information</b>
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**Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

**Disclaimer**

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, Hatuma, if further information is required.

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