

# SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

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

Product: **Biofulvate**  
Product Use: For agricultural use only. Facilitates crop absorption and use of nutrients  
Restriction of Use: Refer to Section 15  
New Zealand Supplier: **Waikaitu Limited**  
Address: 28 Oxford Street  
Richmond  
Nelson, 7020  
Website: www.waikaitu.com  
Telephone: +64 3 970 0302  
**Emergency No: 0800 764 766 (National Poison Centre)**  
Date of SDS Preparation: 11 August 2020

## Section 2. Hazards Identification

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

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

### Pictograms



Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

Storage Code	Storage Statement
None allocated	

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

Product Name: Biofulvate  
Date of SDS: 11 August 2020

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

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

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Fulvic acid	10-15	479-66-3
Non hazardous	To bal	

**Section 4. First Aid Measures**

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Wash out mouth thoroughly with water. Drink copious amounts of water and provide fresh air. 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. Seek medical attention if needed.
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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

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

Symptoms:

<b>Ingestion:</b>	May be harmful if swallowed
<b>Inhalation:</b>	Not applicable
<b>Skin:</b>	Not applicable
<b>Eye:</b>	Not applicable

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Non Flammable
<b>Hazards from products</b>	Oxides of carbon, possible toxic fumes
<b>Suitable Extinguishing media</b>	Use extinguishing media based on surrounding material
<b>Precautions for firefighters and special protective clothing</b>	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
<b>HAZCHEM CODE</b>	<b>None Allocated</b>

**Section 6. Accidental Release Measures**

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Do not allow to enter drains and water courses.

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

**Section 7. Handling and Storage**

**Precautions for Handling:**

- Read label before use.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.

**Precautions for Storage:**

- Keep out of reach of children.
- Store away from incompatible materials listed in Section 10.

<b>Section 8</b>	<b>Exposure Controls / Personal Protection</b>
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**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA ppm mg/m <sup>3</sup>	STEL ppm mg/m <sup>3</sup>
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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. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11<sup>TH</sup> EDITION.

**Engineering Controls**

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists.

**Personal Protection Equipment**

<b>Eyes</b>	Goggles or shielded safety glasses are recommended.
<b>Skin</b>	Wear protective gloves when handling this product.
<b>Respiratory</b>	Not normally required. If ventilation is poor, use a respirator rated for organic vapours

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
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<b>Appearance</b>	Liquid
<b>Colour</b>	Brown
<b>Odour</b>	Mild earthy
<b>Odour Threshold</b>	Not available
<b>pH</b>	7-9
<b>Boiling Point</b>	100°C @ 20m
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	-1°C
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	23 hPa (17 mm Hg)
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	1.1
<b>Water Solubility</b>	Fully soluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition</b>	Not available

<b>Temperature</b>	
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reactions known.
<b>Conditions to Avoid</b>	No further relevant information available.
<b>Incompatible Materials</b>	Strong oxidisers
<b>Hazardous Decomposition Products</b>	Oxides of carbon, possible toxic fumes

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	May be harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

#### 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

This product is not hazardous to the environment.

<b>Product:</b>	
<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

### Section 13. Disposal Considerations

#### Disposal Method:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

**Precautions or methods to avoid:** None known.

### Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

**Section 15 Regulatory Information**

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

EPA Approval Code: Fertilisers (subsidiary) – HSR002571

HSNO Classification: 6.1E(oral)

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	Not required
Secondary Containment	Not required
Restriction of Use	Only use for the intended purpose.

**Section 16 Other Information****Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
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

The information herein is given in good faith, but no warranty, express or implied is made.

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

Issue Date: 11 August 2020

Review Date: 11 August 2025

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Date of SDS: 11 August 2020

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