



SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Liquid Humus™**
Product Use: Fertiliser
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Biologix**
Address: 10 Opawa St
Blenheim 7201

Telephone: 021 1901051
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 7 July 2021

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Potassium Humate	10 - 20	Proprietary
Potassium Hydroxide	<0.5	1310-58-3
Proprietary mix of non-hazardous ingredients	To 100	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse eyes with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water, if irritation persists contact a physician.

If on Skin Remove contaminated clothing and wash with soap and water. If symptoms such as redness or irritation occur, consult a physician.

If Swallowed Rinse mouth with water. Do not induce vomiting unless advised to do so by medical personnel. Give plenty to drink provided patient is conscious. Seek medical advice.

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

Product Name: **NTS Liquid Humus™**
Date of SDS: 7 July 2021

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

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	May decompose on heating to emit oxides of carbon.
Suitable Extinguishing media	Water spray, dry agent (carbon dioxide, chemical powder). Keep containers cool with water spray.
Precautions for firefighters and special protective clothing	Fire fighters recommended to wear SCBA. Clear area of all non-emergency personnel. Stay upwind. Eliminate ignition sources. Contain run-off to prevent entry in water or drainage systems.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Clean up spills immediately. Increase ventilation.

Soak up spilled product with absorbent non-combustible material such as sand or soil, collect and transfer to a suitable labelled chemical waste container and dispose of promptly. Do not contaminate streams or waterways. Wipe up with inert materials and place in labelled containers for waste disposal.

Dispose of in compliance with local and/or national regulations as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Avoid contact with eyes and skin, do not inhale spray mist.
- It is recommended to wear personal protective equipment as outlined in section 8.
- Prohibit eating, drinking and smoking in contaminated areas.

Precautions for Storage:

- Keep out of reach of children.
- Store in a cool, dry area in original sealed container.
- Do not store in prolonged sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

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 11TH EDITION.

Engineering Controls

Ensure sufficient ventilation to minimize exposure.

Personal Protection Equipment

Eyes	Always good practice to wear safety glasses when handling chemicals.
Skin	Always good practice to wear impervious gloves when handling chemicals.
Respiratory	Not required.
Hygiene	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking and going to the restroom.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Dark Brown
Odour	Mild, citrus
Odour Threshold	Not available
pH	10.5 - 11.5
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.1
Conductivity	25-35 mS/cm
Water Solubility	Fully miscible
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	Limited evolution of carbon oxides if burned

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered however may cause gastro-intestinal discomfort if consumed.
Dermal	Not applicable.
Inhalation	Not triggered however breathing spray mist may cause respiratory irritation.
Eye	Not triggered however may cause eye irritation.
Skin	Not triggered however may cause irritation after prolonged or repeated exposure.

Chronic Effects:

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

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Triple or preferably pressure rinse containers before disposal.

Dispose of used container in accordance with all local and national regulations. Recycle containers if possible (replace cap and return cleaned container to recyclers or collection point).

Precautions or methods to avoid: Empty containers and product should not be burned.

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 NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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

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

Issue Date: 7 July 2021 Review Date: 7 July 2026