

Safety Data Sheet

Nitrogen Express Liquid

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name: Nitrogen Express.
Chemical Name: NA
Company: New Zealand Humates Ltd
Postal Address: PO Box 558, Te Puke, Bay of Plenty
Telephone Number: 0800 HUMATES (0800 486 2837)
Product Use: Nitrogen Express is used to increase nitrogen in soil, pasture and plants.
Product Type: Liquid.

NATIONAL POISONS INFORMATION CENTRE: 0800 764 766

Emergency response: Dial 111

SECTION 2: HAZARD INFORMATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval number: HSR002571

Pictograms:



Signal Word: WARNING

GHS Classification: Eye Irritation Category 2, Hazardous to Terrestrial Vertebrates.

Hazard statements

H319 Causes serious eye irritation

Precautionary Statements Prevention

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements Response

P305 + P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

Keep out of reach of children. Store in the original container, tightly closed, in a cool, dry and well-ventilated area away from feed, seed or foodstuffs.

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Disposal

P501 Dispose of contents/container to an authorised landfill in accordance with national and local regulations.

SECTION 3: PHYSICAL DESCRIPTION / PROPERTIES

Ingredients: Urea, Fulvic, Water

Chemical Entity	CAS No.	% (weight)
Urea	57-13-6	40-50%
Fulvic Acid	479-66-3	<2%
Water	7732-18-5	50-60%

SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush with water for several minutes. Remove contact lenses if present. Seek medical advice if necessary.

Skin Contact: Wash off with clean running water and soap (if available). Seek medical attention if necessary.

Inhalation: If breathing is difficult move to fresh air. Seek medical attention if experiencing respiratory symptoms.

Ingestion: Immediately give a glass of water. First aid is generally not required. If in doubt call National Poison Centre 0800 764 766 and seek medical advice if you feel unwell.

Advice to doctor: Treat symptomatically.

NATIONAL POISONS INFORMATION CENTRE: 0800 764 766

Emergency response: Dial 111

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: The material is not readily combustible under normal conditions. However, it will break down under fire conditions and organic component may burn. Not considered to be a significant fire risk.

Extinguishing Media: Use media appropriate to surrounding fire conditions. Although the material is non-combustible, evaporation of water from the mixture caused by the heat of nearby fire may produce floating layers of combustible substances – in such event use foam.

Protection for Firefighters: Wear breathing apparatus, protective clothing and equipment.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear personal protective equipment detailed in Section 8. Evacuate personnel to safe areas. Avoid breathing vapours and mist.

Prevent further leakage or spillage if safe to do so. Prevent spillage from entering drains or water courses. Contain and absorb spills with sand, earth, inert material or vermiculite.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of in compliance with local and/or national regulations or as per Section 13.

SECTION 7: HANDLING AND STORAGE

Storage: Store in original container in a cool and dry place.
Keep container tightly closed.
Keep out of reach of children.
Avoid contamination of water, foodstuffs, feed or seed.

Handling: Limit all unnecessary personal contact.
Avoid contact with eyes and skin.
Wear protective clothing when risk of exposure occurs.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

Other Information: N/A

SECTION 8: PERSONAL PROTECTION / EXPOSURE CONTROLS

Personal Protection: Safety glasses are recommended to avoid contact with eyes. Wear suitable gloves during handling of the product.

Engineering Controls Handle in accordance with good industrial hygiene and safety practice.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

	TWA	STEL
Substance	ppm mg/m³	ppm mg/m³

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 (WES-STEL). 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 APRIL 2022 13TH EDITION.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown Liquid.
Odour:	No data available.
pH:	Not available.
Boiling Point/Melting Point:	No data available.
Flash Point:	Not applicable.
Evaporation Rate:	No data available.
Vapour Pressure:	No data available.
Flammability:	Not applicable.
Lower Explosion Limit:	No data available.
Upper Explosion Limit:	No data available.
Bulk Density:	No data available.
Vapour Pressure:	No data available.
Solubility In Water:	Miscible.
Specific Gravity	No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Data:	No data available.
Stability:	Product is considered stable under normal conditions of storage.
Conditions to Avoid:	Heat and sunlight.
Materials to Avoid:	Not available.
Hazardous Decomposition Products:	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion:	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact:	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye:	The liquid is an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness.

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Chronic:	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives and CCID using animal models); nevertheless exposure by all routes should be minimised as a matter of course. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in workplace atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.
Acute Toxicity:	No data available.
Irritation:	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
Urea:	Asthma-like symptoms may continue for months or even years after exposure to Urea ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. Altered sleep time, change in motor activity, antipsychosis, dyspnea, methaemoglobinaemia, convulsions, lymphomas recorded. Carcinogenic by RTECS criteria.
Corrosivity:	No data available.
Sensitisation:	No data available.
Dose toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Reproductive Toxicity:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Hazardous to Terrestrial Vertebrates.
Persistence and degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility In Soil:	No data available.

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SECTION 13: DISPOSAL AND CONSIDERATIONS

Product Disposal: Triple rinse containers before disposal. Add rinsing to spray tank. Ensure that disposal of material is carried out in accordance with national and local regulations.

SECTION 14: TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

UN Number: Not applicable.
 Pack Group: Not applicable.
 Class: Not applicable.
 Hazchem Code: Not applicable.
 Subs Risk: Not applicable.
 EPG No: Not applicable.
 Shipping Name: No data available.
 Hazard: None

SECTION 15: REGULATIONS

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval number: HSR002571

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
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:	Use as for intended use.

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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 April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclosure: The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. NZ Humates Ltd assumes no responsibility for the injury to customers or third party proximity caused by the material if reasonable safety and usage procedures are not adhered to as stipulated in this data sheet and / or other information found.

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