SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	WUXAL® 39N
Product No:	92578
Product Use:	Fertiliser, preparation for plant nutrition.
Restriction of Use:	Refer to Section 15
New Zealand Supplier:	Horticentre Ltd
Address:	10 Firth Street Drury, 2113
Telephone:	+64 9 294 8453
Fax Number:	+64 9 294 7272
Emergency Telephone:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	9 July 2024 v2

Section 2. Hazards Identification

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

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

Pictograms

Signal Word: **WARNING**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment chronic Cat. 4	H401	Toxic to aquatic life.

Prevention Code	Prevention Statement
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
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 Code **Storage Statement**

None Allocated	

Disposal Code	Disposal Statement
P501	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.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Ammonium Nitrate	<45	6484-52-2

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. 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 — Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble.

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:

Ingestion: Not applicable
Inhalation: Not applicable
Skin: Not applicable
Eye: Causes severe eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	The material itself is hardly inflammable. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible.
Suitable Extinguishing media	Water, carbon dioxide, dry extinguishing media. Unsuitable: Extinguishing substances on an organic basis or with organic additions.
Precautions for firefighters and special protective clothing	Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.
HAZCHEM CODE	**None allocated**

Section 6. Accidental Release Measures

Wear full protection as in Section 8. Remove soiled clothes.

Absorb with inorganic absorption media; do not use saw dust or other organic materials.

Disposal of contaminated material as waste according to section 13.

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Section 7. Handling and Storage

Handling

- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear suitable protecting clothes.
- Product rests to be cleared away by rinsing with water before starting fire and hot works on containers and devices. Fire and hot works can only be carried out by an expert after previous permission in writing or under permanent supervision of an expert. Pumps must be so constituted and used that no hazardous reactions can occur. Pumps without stuffing boxes to be used only. Crystallized product to be dissolved again with plenty of water.

Storage

- Protect the product from impurity and drying up.
- Keep containers tightly closed.
- Do not store in metal containers (corrosion risk).
- Do not store below +5 °C and above +40 °C.
- Do not store together with food and luxury food, beverage and animal feed.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³

No ingredient has 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 2023 14TH EDITION.

Engineering Controls

Ensure adequate ventilation to minimize exposure

Personal Protection Equipment

Eyes	Wear safety glasses.
Hands	Chemical resistance rubber or plastic gloves.
Skin	Closed working clothes.
Respiratory	Not required.

Section 9 Physical and Chemical Properties

Appearance	Aqueous Solution
Colour	Clear Colourless
Odour	Product specific
Odour Threshold	Not applicable
pH (original state)	Approx 6-8
pH at 13g/l H2O and 20^{0}C:	Approx 7.1
Change in physical state	> 100^{o}C evaporation of water
Boiling Point	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower Explosive Limits	Not applicable
Explosive hazards	The product is harmless as a solution/suspension, but in crystallized state exists explosion hazard if mixed with inflammable materials.
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Density @ 20^{0}C	approx. 1.3 g/cm^3
Water Solubility @ 20^{0}C	To a very high degree
Partition Coefficient:	Not applicable
Self ignition	The product is not spontaneously flammable.
Decomposition Temperature	Not applicable
Kinematic Viscosity	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Reacts with alkalis setting ammonia free.
Conditions to Avoid	Temperatures above +40° C. Keep the product from drying up.
Incompatible Materials	Alkalis.
Hazardous Decomposition Products	If larger quantities of the product are on fire, the formation of nitrous gases, ammonia, sulfuric acid gases and phosphoric acid gases is possible.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (oral): = 4926 mg/kg. Nausea and vomiting. The following applies to ammonium salts in general: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis. Diarrhoea, disturbed electrolyte balance. The following applies to nitrates in general: methaemoglobinaemia after the uptake of large quantities.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Cause serious eye irritation.
Skin	Not applicable.

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

Toxic to aquatic life.

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

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking-water supplies.
The following applies to ammonium ions in general:
Biological effects: fish: toxic as from 0.3 mg/l ;
animal nourishment for fish: toxic as from 0.3 mg/l .
No ecological problems are to be expected when the product is handled and used with due care and attention.

Section 13. Disposal Considerations

Disposal Method:
Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations.

Precautions or methods to avoid: Dispose of unwanted product as a hazardous material according to Local Regulations.

Section 14 Transport Information

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

Section 15 Regulatory Information

EPA Approval Code: EPA Approval Code: Fertilisers (subsidiary) - 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	Only use for the intended purpose.

Section 16 Other Information

Glossary

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 2023 14th 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

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, if further information is required.

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