

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Nutricote 41-0-0
 Product Description: Urea based fertilizer coated with resin
 Product Use: Fertiliser

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury, 2114

Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 19 July 2022 v2

Section 2. Hazards Identification

NOT classified as hazardous as per EPA Hazardous Substances (Classification) Notice 2020.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Urea	85-95	57-13-6
Polyolefin	5-15	Proprietary
Silica gel, crystal-free	<10	112926-00-8

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: In case of dust or granules in eye rinse with water for several 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: If conscious, 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: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	At high temperature, dangerous decomposition gases can be emitted.(Nitrogen oxide ,ammonium gas, etc.)
Suitable Extinguishing media	Water
Precautions for firefighters and special protective clothing	Use self-contained breathing apparatus and chemically protective clothing. Though product is no-flammable, there is a possibility to extend burning of flammable materials. In that case, remove product or pour lots of water.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear PPE as detailed in Section 8. Evacuate unnecessary personnel.

Do not allow to enter drains or water courses.

Sweep up and shovel into a suitable container for disposal. Disposal of contaminated material as waste according to section 13.

Section 7. Handling and Storage

Handling

- Read label before use.
- Wash hands thoroughly after handling.
- Avoid mixing with strong alkaline material, flammable material and fuel.
- Sweep product on the ground and keep clean to prevent falling.
- Handle bags carefully to avoid breakage.

Storage

- Keep bags tightly closed to avoid absorption of moisture.
- Keep in a cool and dry place.
- Keep away from flammable materials.

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 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 APRIL 2022 13TH EDITION.

Engineering Controls

No specific controls are needed.

Personal Protection Equipment

Not normally required. In extremely dusty conditions, appropriate PPE is recommended.

Eyes	In case of dust production: protective goggles. EN 166
Hands and Skin	Normal clean work clothing and rubber gloves.
Respiratory	Dust mask with particle filter. No respiratory protection needed under normal use conditions.

Section 9 Physical and Chemical Properties

Appearance	Granules (Solid)
Colour	White
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	Approx 1.0
Solubility in Water and Ethanol	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle size	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal conditions of use.
Hazardous Reactions	None known.
Conditions to Avoid	High temperature and plentiful moisture.
Incompatible Materials	Flammable materials and alkalis.
Hazardous Decomposition Products	Nitrogen oxide, ammonium gas, etc.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

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

Urea (57-13-6)	
LD50 oral rat (male)	14300 mg/kg
LD50 oral rat (female)	15000 mg/kg
LD50 oral rabbit (male)	11500 mg/kg
LD50 oral rabbit (female)	13000 mg/kg

Section 12. Ecotoxicological Information

This product is not hazardous to the environment

Persistence and degradability	Biodegradable (Urea)
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.
Toxicity to Fish (Urea)	Barilius barna : LC50(96h) >9,100mg/l
Toxicity to Algae (Urea)	Scenedesmus quadricauda : Exposure limit(192h) >10,000mg/l
Toxicity to Crustacean(Urea)	EC50(24h) .10,000mg/l

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.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

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

Section 15 Regulatory Information

NOT classified as hazardous as per 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.
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

UEL
WES

authority.
Upper Explosive Level
Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 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

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