

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Nuron**Product Use: Insecticide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 9 November 2018

Section 2. Hazards Identification

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

EPA Approval No: HSR000407

Pictograms









Flammable Irritant

Chronic

Ecotoxic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1C	H226	Flammable liquid and vapour.	Flam. Liq. 3
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.9B	H373	May cause damage to organs through single, prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2D	H423	Harmful to the soil environment.	-

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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.	
P362	Take off contaminated clothing and wash before re-use.	
P391	Collect spillage.	
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated	
P361+P353	clothing. Rinse skin with water/shower.	
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
P351+P338	contact lenses, if present and easy to do. Continue rinsing.	
P309 + P311	+ P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	
P332 + P313	If skin irritation occurs: Get medical advice/ attention.	
P337 + P313	If eye irritation persists: Get medical advice/attention.	
P370 + P378	In case of fire: Use fine water spray, dry chemical or carbon dioxide for extinction.	

Storage Code	Storage Statement
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Lufenuron	5 %	103055-07-8
Cyclohexanone	20 %	108-94-1
Heavy aromatic solvent	> 50 %	64742-94-5

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. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin Take off contaminated clothing and wash before re-use. Wash with plenty

of soap and water. If skin irritation occurs: Get medical advice/attention.

If Swallowed Rinse mouth. 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.

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Seek medical attention if needed. Call a POISON CENTRE or

doctor/physician if you feel unwell.

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:

Ingestion: May be harmful if swallowed.

Inhalation: Not applicable.

Skin: May be harmful if in contact with skin. Causes skin irritation.

Eye: Causes serious eye irritation.

Chronic: May cause damage to organs through single, prolonged or repeated

exposure.

Treatment: Treat according to symptoms (decontamination, vital functions). No known

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is Flammable.
Hazards from	Combustion products are toxic and/or irritant. Measures have to be
products	taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably
Suitable Extinguishing media	Extinguish warehouse and factory fires using dry chemical extinguisher, foam, carbon dioxide or fine-water spray. DO NOT use direct jet of w Self-contained breathing apparatus and full protective clothing.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing.
HAZCHEM CODE	3Y

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Eliminate all sources of ignition.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- · Read label before use.
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- · Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.

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- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- · Keep away from children.
- Store locked up.
- Store in a cool, dry area, out of direct sunlight (storage temperature should not exceed 38°C).
- Storage must be generally in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409).
- Store in original container tightly closed and in a locked dry, cool, well ventilated area away from foodstuffs.
- 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 mg/m³	STEL ppm mg/m³
Cyclohexanone (skin) [108-94-1]	25 100	

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 2017 9TH EDITION.

Engineering Controls / Industrial Hygiene

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.

Personal Protection Equipment



Eyes	Safety goggles with side-shields.
Skin	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)). Body
	protection (chemical protection suit, boots) must be chosen depending on
	activity and possible exposure.
Respiratory	Respirator (organic vapour and particulate matter) should be used if
	airborne particles are generated when handling this material.
General	Thoroughly wash hands after work, before eating or smoking.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Clear Yellow
Odour	Aromatic solvent odour
Odour Threshold	Not available
pH	6.5
Melting Point/Boiling	>150°C
Point	

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Freezing Point	Not available
Flash Point	50°C
Flammability	Not available
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	Not available
Water Solubility	Not available
Surface tension	Not available
Octanol/water partition	Not available
coefficient:	
Ignition Temperature	Not available
Decomposition	Not available
Temperature	
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	None known.
reactions	
Conditions to Avoid	Sources of ignition.
Incompatible Materials	None known.
Hazardous Decomposition	None known.
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. LD50 > 3 000 mg/kg	
Dermal	May be harmful if in contact with skin. LD50 > 4,000 mg/kg	
Inhalation	Not triggered. LD50 > 4300 mg/m³ (Rat- 4 hrs)	
Eye	Causes serious eye irritation.	
Skin	Causes skin irritation.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	May cause damage to organs through single exposure.	
STOT/RE	May cause damage to organs through repeated or prolonged	
	exposure.	

Section 12. Ecotoxicological Information

Ecological effects information	9.1B = Toxic to aquatic life with long lasting effects.	
	9.2D = Harmful to the soil environment.	
Persistence and degradability	No data available	
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity:	LC50 (96 h) for rainbow trout >73, carp >63, bluegill	
_	sunfish >29, catfish >45 mg/l	
Toxicity for crustacean (daphnia):	Toxic to Daphnia	
Toxicity to algae:	Slightly toxic to algae	
Precautions:	Do not allow to enter waterways.	

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Tel: 64 9 475 5240 www.techcomp.co.nz

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road, Rail, Sea and Air Transport

UN No	1993	
Class - Primary	3	
Packing Group	III	
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Lufenuron)	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L, it can be	
Limited Quantities	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

Section 15 Regulatory Information

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

EPA Approval Code: HSR000407

HSNO Classification: 3.1C, 6.1E (oral, dermal), 6.3A, 6.4A, 6.9B, 9.1B, 9.2D

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	500L(>5L), 1500L(<5L), 250 L open
Signage Trigger Quantities (Schedule 3)	1000L (3.1C, 9.1B)
Fire Extinguishers (Schedule 4)	500L – 2 extinguishers
Emergency Response Plan (Schedule 5)	1000L (9.1B)
Secondary Containment (Schedule 5)	1000L (9.1B)
Tracking (Schedule 26)	Not required
HSNO Additional Controls (Restrictions of	Refer to EPA www.epa.govt.nz for
use)	controls document - HSR000407
77A -	The substance must not be applied onto or
	into water.
Hazardous Property Controls Notice 2017	

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HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate	
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators	
HPC Notice Part 3	Hazardous substances in a place other than a workplace.	
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances.	
ACVM Act and Regulations		
ACVM Approval No	P7584	
See <u>www.foodsafety.govt.nz</u> for registration controls		

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ 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
- 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 Adria, if further information is required.

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