

## SAFETY DATA SHEET

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

## Section 1. Identification of the material and the supplier

Product: Linuron 400SC

Product Use: Herbicide

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: 21 March 2023

## Section 2. Hazards Identification

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

**EPA Approval No: HSR100376** 

#### **Pictograms**







Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates

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<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

#### Section 3. **Composition / Information on Hazardous Ingredients**

Ingredients	Content (%w/v)	CAS NUMBER.
Linuron	40	330-55-2
Other ingredients determined not to	To bal	
be hazardous		

#### 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 Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear.

Wash affected areas immediately with soap and water. Do not rub skin. Wash contaminated clothing before re-use. If a large area is affected or if

irritation persists, seek medical assistance.

If Swallowed Do NOT induce vomiting if swallowed unless advised otherwise by a

> physician. Never give anything by mouth to a person who is unconscious or having convulsions. Wash mouth with water and seek medical attention immediately. For advice, contact the National Poisons Centre on 0800

POISON (0800 764766) or seek medical attention immediately.

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

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respiration if not breathing. Call a POISON CENTRE or a doctor

immediately.

#### Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** May be harmful if swallowed.

Inhalation: Not applicable.
Skin: Not applicable.
Eye: Not applicable.

**Chronic:** Causes damage to organs through single or repeated or prolonged

exposure. Suspected of damaging fertility or unborn child.

**Treatment:** No known specific antidote. Treat symptomatically and supportively

(decontamination, vital functions).

## Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from products	Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxide, sulfur oxide, sulfides.
Suitable Extinguishing	Dry chemical, carbon dioxide, water fog or fine spray, alcohol
media	resistant foam.
Recommended protective	Wear SCBA and appropriate chemical-protective clothing. Use
clothing & Precautions	self-contained breathing apparatus.
for firefighters	
HAZCHEM CODE	2X

#### Section 6. Accidental Release Measures

#### **Personal precautions:**

Use protective clothing as detailed in Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

#### **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

#### 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 carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- 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.
- Use personal protective equipment as required.
- Ensure adequate ventilation.
- Cleaning water should be disposed of in appropriate manner.

#### **Precautions for Storage:**

- · Keep away from children.
- Store in tightly closed containers in a cool, dry, well-ventilated place, out of direct sunlight, and away from pharmaceuticals, cosmetics, fertilizers, stockfeed, foodstuffs or children.

- Protect against freezing.
- Store away from incompatible materials listed in Section 10.

## Section 8 Exposure Controls / Personal Protection

## **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 (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 / Industrial Hygiene**

Ensure adequate ventilation.

## **Personal Protection Equipment**



Eyes	Wear safety goggles with side-shields. Chemical goggles are recommended where contact with the liquid is likely to occur.
Hands	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work. Females of childbearing age should not come into contact with the product. Use personal protection if required.  Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

# Section 9 Physical and Chemical Properties

Appearance	Viscous liquid
Colour	Grey to off-white
Odour	Characteristic
Odour Threshold	Not available
pH	6.0-9.0
Melting Point/Boiling Point	93 - 95°C
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
Density	1.19g/L(20°C)
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available

<b>Decomposition Temperature</b>	Not available
Viscosity	Not available
Particle Characteristics	Not available

## Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage and handling	
	conditions.	
Possibility of hazardous reactions	Chlorine compounds, nitrogen oxides	
Conditions to Avoid	Temperature extremes	
Incompatible Materials	Oxidizing agents, acids.	
Hazardous Decomposition	Thermal decomposition generates: carbon dioxide,	
Products	carbon monoxide, nitrogen oxide, sulfur oxide,	
	sulfides.	

## Section 11 Toxicological Information

#### **Acute Effects:**

710010 211000		
Swallowed	Not applicable. Acute oral toxicity (LD50): > 4000 mg/kg[Rat].	
Dermal	Not applicable. LD50 >4,000 mg/kg (rat)	
Inhalation	Not applicable. LD50 (4h) rat $> 2.0 \text{ mg/}\ell$ .	
Eye	Causes serious eye irritation.	
Skin	Not applicable.	

## **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Suspected of damaging fertility or unborn child.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Causes damage to organs through single exposure.	
STOT/RE	Not applicable.	

## Section 12. Ecotoxicological Information

Ecological effects information	Very toxic to aquatic life with long lasting effects.	
	Hazardous to soil organisms.	
	Hazardous to terrestrial vertebrates.	
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 (96h): 4.36mg/l for carp; 3.19mg/l for	
_	rainbow trout	
Toxicity for daphnia:	EC50 (48h) > 0.74 mg/ $\ell$ .	
Toxicity to algae:	EC50 (96 h) > 0.015 mg/ $\ell$ for green algae.	
Precautions:	Do not allow to enter waterways.	

## 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.

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## This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



#### Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE (LINURON
	40%), LIQUID, N.O.S.
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 2020

EPA Approval Code: HSR100376

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	100L	
Emergency Response Plan (Schedule 5)	100L	
Secondary Containment (Schedule 5)	100L	
Tracking (Schedule 26)	Not required	
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls	
	document - HSR100376	
HSNO Additional Controls (Restrictions of use)		
77A	a) The substance must not be applied into	
	or onto water.	
ACVM Act and Regulations		
ACVM Approval No	P8772	
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.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> 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

#### 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 Adria, if further information is required.

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