

LOROX® LINURON FLOWABLE HERBICIDE

Date of Issue: 23 December 2022

1. IDENTIFICATION

Product Identifier: Lorox® Linuron Flowable Herbicide

Other Means of Identification:

Linuron

Recommended Use of the Chemical and Restrictions on Use:

Herbicide

Details of Manufacturer or

Importer:

AgNova Technologies Pty Ltd Unit 4, 482 Kingsford Smith Drive Hamilton Qld 4007 Australia

(03) 9899 8100 agnova.com.au

Emergency Phone Number: 1800 033 111 (24 hrs) IXOM ERS

13 11 26 Poisons Information Centre

2. HAZARD(S) IDENTIFICATION

GHS CLASSIFICATIONS

WARNING

Suspected of causing cancer (H351)

May cause damage to organs through prolonged or repeated exposure (H373)

Harmful if inhaled (H332)

May be harmful if swallowed (H303)

Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Carcinogenicity	2	None	
Specific target organ toxicity, repeated exposure	2		
Acute toxicity, inhalation	4	Environmental Hazards	Category
Acute toxicity, oral	5	Hazardous to the Aquatic Environment – Acute	1
		Hazardous to the Aquatic Environment – Chronic	1

HAZARDS NOT REQUIRING CLASSIFICATION



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None

PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Wear protective gloves and protective clothing. Refer to Section 8 for specific PPE requirements. Do not breathe mist/spray. Use only outdoors or in a well-ventilated area. (P203+P280+P260+P271) IF exposed or concerned, get medical advice. Get medical help if you feel unwell. (P318+P319)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

IF SWALLOWED: Get medical help. (P301+P317)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

OTHER CLASSIFICATIONS

ADG Not classified as Dangerous Goods for land transport under the Classification: Australian Code for Transport of Dangerous Goods by Road and

Rail, 7th Edition, special provision AU01 - refer Section 14

SUSMP Not scheduled

Classification: (Standard for Uniform Scheduling of Medicines and Poisons)

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (% w/v):
Linuron	330-55-2	48.0
[3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea]		
memylureaj		

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

Ingestion: Call a poison control centre or doctor immediately for treatment

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control



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centre or doctor. Do not give anything by mouth to an

unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 000, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control centre or

doctor for treatment advice.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control centre or

doctor for treatment advice.

First Aid Facilities: Provide washing facilities in the workplace.

Symptoms Caused by Exposure: No data available.

Medical Attention

and Special Treatment: None specified.

5. FIREFIGHTING MEASURES

Suitable

Extinguishing Equipment:

Use firefighting media appropriate for combustibles involved in

the fire.

Specific Hazards Arising from the Chemical: Thermal decomposition or combustion may generate irritating

and highly toxic fumes.

Special Protective Equipment and Precautions for Firefighters: Wear self-contained positive pressure breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water/firefighting

water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent

environmental damage from excessive water runoff.

Hazchem Code: 3Z

NovaSource® Tessenderlo Group

SAFETY DATA SHEET

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6. ACCIDENTAL RELEASE MEASURES

Personal
Precautions,
Protective
Equipment and
Emergency
Procedures:

Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

Environmental Precautions:

Prevent material from entering into soil, ditches, public sewer systems, any waterways and/or groundwater. Do not flush to drain or soil. Contain contaminated water.

Methods and Materials for Containment and Cleaning Up: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. All Clear DS). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals. Remove contaminated clothing and wash clothing before reuse. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, including any Incompatibilities: Store product in original container only. Store in a cool, dry place. Store locked up.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

None established



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Biological Monitoring: No data available.

Engineering Controls:

General ventilation should be sufficient for most operations. Local

exhaust ventilation may be necessary for some operations.

Individual

Wear protective gloves, protective clothing, eye protection and

Protection face protection.

Measures, for

Wash hands thoroughly after handling product. **example, Personal** Wash contaminated clothing before reuse.

Protective

Equipment (PPE):

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light tan liquid

Odour: Weak, characteristic odour

No data available **Vapour Pressure: Vapour Density:** No data available

Density at 20°C: 1.19

Boiling Point: 103 +/- 3°C

Melting/Freezing

No data available

Point:

Solubility: Disperses to form a suspension. Solubility of Linuron in water is

75 ppm.

7.1 pH:

Flash Point: No data available Flammability: Not flammable **Flammability** Not applicable

Limits:

No data available

Auto-Ignition Temperature:

Partition

No data available

Coefficient:

No data available

Kinematic Viscosity:

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10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperature and storage conditions.

Chemical Stability: Stable under normal temperature and storage conditions.

Possibility of

Hazardous Reactions:

Will not occur.

Conditions to

Avoid:

Exposure to extreme heat and open flames.

Incompatible

Materials:

Strong acids or bases.

Hazardous

Decomposition

Products:

None known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral Toxicity: LD_{50} Rat = 3247 mg/kg

Dermal Toxicity: LD₅₀ Rat >2000 mg/kg

Inhalation Toxicity: LC₅₀ Rat >1.7 mg/L (4 hr exposure)

Skin Not ir

Corrosion/Irritation:

Not irritating to the skin (rabbits)

Serious Eye

Damage/Irritation:

Not irritating to the eyes (rabbits)

Respiratory or Skin

Sensitisation:

Not a sensitiser

Reproductive

Toxicity:

Not a developmental or reproductive toxin

Germ Cell

Mutagenicity:

Not mutagenic or genotoxic.



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Carcinogenicity: US EPA: Group C without Q₁* (Possible Human Carcinogen).

Not listed by ACGIH (American Conference of Governmental Industrial Hygienists), IARC (International Agency for Research on Cancer), NTP (National Toxicology Program) or OSHA

(Occupational Safety & Health Administration).

Specific Target Organ Toxicity (STOT) - single exposure:

No data available.

Specific Target Organ Toxicity (STOT) – repeated

exposure:

No data available.

No data available. Aspiration Hazard:

12. ECOLOGICAL INFORMATION

This information is based on the active ingredient: Linuron

Ecotoxicity:

Aquatic Toxicity: EC₅₀ 48 hr Daphnia magna 0.12 mg/L

> LC₅₀ 96 hr Sheepshead Minnow 0.89 mg/L EC₅₀ 72 hr Freshwater Algae 0.016 mg/L

> > (Scenedesmus subspicatus)

NOEC 21 day Rainbow Trout 0.1 mg/L NOEC 21 day Daphnia magna 0.18 mg/L

Acute Oral LD₅₀ **Bobwhite Quail** 940 mg/kg **Bird Toxicity:**

Persistence and

Plants:

Degradability: In plants, metabolism involves demethylation and

> demethoxylation. Soil and Water:

Microbial degradation is the primary factor in disappearance from

soil. Half-life under field conditions is 2-5 months.

Bioaccumulative

Potential:

No data available

This chemical is known to leach through soil into ground water **Mobility in Soil:**



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under certain conditions as a result of agricultural use.

13. DISPOSAL CONSIDERATIONS

Disposal Containers and Methods Triple rinse containers before disposal. Add rinsings to spray

tank.

DO NOT dispose of undiluted chemical on site.

If recycling, replace cap and return clean containers to recycler or

designated collection point.

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance

waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.

DO NOT burn empty containers or product.

For minor spills, leaks, etc., follow all precautions indicated on the product label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill,

fire or other emergency, phone 1800 033 111 (24 hrs).

14. TRANSPORT INFORMATION

Road and RailNot classified as Dangerous Goods under the ADG7 when being transport (ADG): transported in IBCs or other receptacles <500 L (kg), (Special

Provision AU01).

Marine Transport

(IMDG):

Classified as Dangerous Goods for transport by sea according to

the criteria of the UN Model Regulations for Transport of

Dangerous Goods 13th Edition

Air Transport

(IATA):

Classified as Dangerous Goods for transport by air according to

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

the criteria of the UN Model Regulations for Transport of

Dangerous Goods 13th Edition

UN Number: 3082

Proper Shipping

I N.O.S. (Linuron)

Name or Technical

Name:

Transport Hazard

Class:

9

Packing Group III



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Environmental Hazards for

Product contains environmentally hazardous substances: linuron

(ISO).

Transport

Marine pollutant.

Purposes: Non-bulk packaging (max capacity of 450 L or less for liquids or

400 kg or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations and

therefore treated as non-hazardous material.

All bulk shipments or any shipment transported partially or

entirely by vessel are treated as regulated Marine Pollutants and

are shipped according to the requirements listed above.

Special

Precautions for

User:

Not applicable

Additional

None

Information:

Hazchem Code:

3Z

15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary

Chemicals Code Act 1994 (Cwlth). APVMA Product Number: 60490

SUSMP Not scheduled.

16. OTHER INFORMATION

Date of

23 December 2022

Preparation or

Revision:

Reason for Revision:

Update to GHS7

Abbreviations and

Acronyms:

ADG7 – Australian Dangerous Goods Code for Road and Rail

Transport, 7th Edition

APVMA - Australian Pesticides and Veterinary Medicines

Authority

EC – Effective Concentration

EPA –Environmental Protection Agency (US)



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GHS – Globally Harmonised System of Classification and

Labelling of Chemicals

IBC - Intermediate Bulk Containers

LC - Lethal Concentration

LD - Lethal Dose

NIOSH – National Institute for Occupational Safety and Health

(USA)

NOEC - No Observed Effect Concentration

SUSMP - Standard for the Uniform Scheduling of Medicines and

Poisons

Data Sources: Manufacturer product safety data and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF SDS