# NovaSource® Tessenderlo Group

#### **SAFETY DATA SHEET**

# LOROX® LINURON DF HERBICIDE

Date of Issue: 25 January 2024

#### 1. IDENTIFICATION

Product Identifier: Lorox® Linuron DF 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)

# 2. HAZARD(S) IDENTIFICATION

## **GHS CLASSIFICATIONS**

#### SIGNAL WORD - DANGER







#### HAZARD CLASSIFICATIONS

| Health Hazards                                     | Category | Physical Hazards                               | Category |
|--|----------|--|----------|
| Reproductive toxicity                              | 1B       | None   |          |
| Carcinogenicity                                    | 2        |  |          |
| Acute toxicity, inhalation                         | 4        | <b>Environmental Hazards</b>                   | Category |
| Specific target organ toxicity (repeated exposure) | 2        | Hazardous to the Aquatic Environment – Chronic | 1        |
|  |          | Hazardous to the Aquatic Environment – Acute   | 1        |

#### **HAZARD STATEMENTS**

May damage the unborn child, suspected of damaging fertility (H360Df) Suspected of causing cancer (H351)

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

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Harmful if inhaled (H332)

May be harmful if swallowed (H303)

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

#### HAZARDS NOT REQUIRING CLASSIFICATION

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 dust. 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 Classification:** Not classified as Dangerous Goods for land transport under

the Australian Code for Transport of Dangerous Goods by Road and Rail special provision AU01, 7<sup>th</sup> Edition – 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/w): |
|--------------------------------------|-------------|------------------------|
| Linuron                              | 330-55-2    | 50.0                   |
| [3-(3,4-dichlorophenyl)-1-methoxy-1- |             |                        |
| methylurea]                          |             |                        |

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#### 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 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

Full protective clothing and self-contained positive pressure

breathing apparatus should be worn.



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**Precautions for** Firefighters:

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.

27 **Hazchem Code:** 

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions. **Protective Equipment and Emergency** 

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:** 

Procedures:

Contain spillage and minimise spread. Dig up heavily contaminated soil and collect in containers for disposal. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

Methods and Materials for Containment and Cleaning Up:

Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for

transport.

#### 7. HANDLING AND STORAGE

**Precautions for Safe** Handling:

Do not inhale dust or spray mist. Avoid contact with eyes, skin

or clothina.

If product on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash

hands, arms and face thoroughly with soap and water.

**Conditions for Safe** Storage, including

Store product in original container only. Store in a cool, dry

place.

Incompatibilities:

# vasourc

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:** None established.

**Biological** No data available.

**Monitoring:** 

If handling indoors, provide local exhaust ventilation. Engineering

**Controls:** 

**Individual Protection** Wear protective gloves, protective clothing, eye protection and

Measures, for face protection.

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

**Equipment (PPE):** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey granules

Odour: Slight, characteristic odour

Vapour Pressure: No data available Not data available **Vapour Density:** 

**Bulk Density:** 609 kg/m<sup>3</sup>

**Boiling Point:** No data available

Melting/Freezing

Point:

Not determined

Disperses. Solubility of Linuron in water is 75 ppm Solubility:

Not determined pH:

Flash Point: No data available **Flammability** 

(explosive) Limits:

No data available

**Auto-Ignition** No data available

Temperature:

#### 10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal temperature and storage conditions

**Chemical Stability:** Stable under normal temperature and storage conditions



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Possibility of

Will not occur

Hazardous Reactions:

**Conditions to Avoid:** Exposure to extreme heat and open flames

Incompatible

Strong acids or bases

**Materials:** 

Hazardous

No data available

**Decomposition** 

Products:

# 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

**Oral Toxicity:** LD<sub>50</sub> Rat 3489 mg/kg

**Dermal Toxicity:** LD<sub>50</sub> Rabbit >2000 mg/kg

**Inhalation Toxicity:** LC<sub>50</sub> Rat 5.08 mg/L (4 hr exposure)

**Skin Corrosion** 

No irritant effect (rabbits)

/Irritation:

Serious Eye

Mild to moderate eye irritant (rabbits)

Damage/Irritation:

Respiratory or Skin

Sensitisation:

Not a skin sensitiser in animals

Germ Cell

Mutagenicity:

Not mutagenic or genotoxic

**Carcinogenicity:** Classified by SWA's HCIS as follows:

Hazard Classification:

Carcinogenicity = Category 2

Hazard Statement:

Suspected of causing cancer (H351)

US EPA: Group C without Q<sub>1</sub>\* (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).

**Reproductive** Classified by SWA's HCIS as follows: **Toxicity:** Hazard Classification:

Reproductive Toxicity = Category 1B

Hazard Statement:

May damage the unborn child, suspected of damaging fertility

(H360Df)



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Specific Target Organ Toxicity (STOT) – single exposure: Not classified by SWA's HCIS

Specific Target
Organ Toxicity

Classified by SWA's HCIS as follows:

(STOT) – repeated

Hazard Classification:

(STOT) – repeated exposure:

Specific target organ toxicity (repeated exposure) = Category 2

Hazard Statement:

May cause damage to organs through prolonged or repeated

exposure (H373)

Aspiration Hazard: No data available

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity:**

This information is based on the active ingredient: Linuron

Aquatic Toxicity: EC<sub>50</sub> 48 hr Daphnia magna 0.12 mg/L

 $LC_{50}$  96 hr Sheepshead minnow 0.89 mg/L  $EC_{50}$  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

Classified by SWA's HCIS:

Hazard Classification:

Hazardous to the Aquatic Environment – Category 1

Chronic

Hazardous to the Aquatic Environment – Acute Category 1

Hazard Statement:

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

**Bird Toxicity:** Acute Oral LD<sub>50</sub> Bobwhite Quail 940 mg/kg

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



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

water under certain conditions as a result of agricultural use.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Containers** and Methods

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 with relevant local, state or territory government regulations.

DO NOT burn empty containers or product.

#### 14. TRANSPORT INFORMATION

Road and Rail Transport (ADG): Not classified as Dangerous Goods under the ADG7 when being 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 the criteria of the UN Model Regulations for Transport of

Dangerous Goods 13<sup>th</sup> Edition

UN Number: 3077

Proper Shipping Name or Technical

Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Linuron)

**Transport Hazard** 

Class:

9

**Packing Group** 

Number:

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Environmental

Product contains environmentally hazardous substances:

Hazards for Transport Purposes: linuron (ISO). Marine pollutant.

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: 2Z

# 15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary

Chemicals Code Act 1994 (Cwlth) APVMA Product Number: 60222

SUSMP Not scheduled

# 16. OTHER INFORMATION

**Date of Preparation** 

or Revision:

25 January 2024

**Reason for Revision:** Update to hazard classification details in Section 2 and Section

11

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)

GHS - Globally Harmonised System of Classification and



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Labelling of Chemicals

HCIS - Hazardous Chemical Information System

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

SWA - Safe Work Australia

# **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**