



# SAFETY DATA SHEET

Product Name: **UNLOCK CONCENTRATE**

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Issued: 9 December 2024

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

**Product name:** UNLOCK CONCENTRATE

**Product use:** Ectoparasiticide. For protection against blowfly strike, the control of lice and as an aid in the control of cockle damage.

**Supplier:** AHD Ltd

**Address:** 1229 Maraekakaho Road  
Hastings 4175  
New Zealand

**Contact phone number:** (06) 873 3611

**Emergency phone number:** Craig Elstob  
Director Agvet NZ Ltd  
027 432 3953

**National Poisons Centre:** 0800-764-766  
Or  
**CHEMCALL** 0800-243-622

**Poisons & Hazardous Chemical Information Centre (New Zealand)** (03) 4747 000

**24 Hour Emergency Response Number (New Zealand)** 0800 734 607

**Police and Fire Brigade (New Zealand)** 111

**Issue date:** 9 December 2024

## SECTION 2: HAZARDS IDENTIFICATION

**HSNO Approval number:** HSR100759  
Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2020

**GHS Classification:** Eye irritation Category 2  
Specific target organ toxicity (repeated exposure) Category 2  
Hazardous to the aquatic environment short-term (Acute) Category Acute 1  
Hazardous to the aquatic environment long-term (chronic) Category Chronic 1

**Signal word:** Warning

**GHS Pictogram:**





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<b>Hazard statement:</b>	H319: Causes serious eye irritation H373: May cause damage to organs through prolonged or repeated exposure H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects.
<b>Prevention statement:</b>	P260: Do not breathe mist/vapours. P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/eye protection /face protection
<b>Response statement:</b>	P314: Get medical advice/attention if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage.
<b>Disposal statement:</b>	P501: Follow the label directions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	Content
*Diflubenzuron	35367-38-5	25%
Water	7732-18-5	41%
Dispersing, wetting and stabilising agents <sup>+</sup>	NA	34%

\*Active ingredient  
+Confidential manufacturing information

## SECTION 4: FIRST-AID MEASURES

<b>General Information:</b>	For advice call a National Poisons Centre (0800 POISON – 0800 764 766). Have this SDS and product label with you when you call. Get medical attention if you feel unwell
<b>Inhalation:</b>	If inhaled, Remove to fresh air. Get medical attention if symptoms persist.
<b>Skin Contact:</b>	Wash skin well with plenty water. Get medical attention if irritation persists.
<b>Eye Contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Rinse mouth. Call a National Poisons Centre (0800 POISON – 0800 764 766), or doctor if you feel unwell.



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## SECTION 5: FIRE-FIGHTING MEASURES

<b>Fire and Explosion Hazards:</b>	Non-flammable
<b>Extinguishing Media:</b>	Use extinguishing media suited to burning materials (i.e. Carbon dioxide, Dry chemical, Foam, Water fog).
<b>Fire Fighting:</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
<b>Flash point:</b>	>100°C
<b>Auto ignition temperature:</b>	No information available
<b>Flammability Class:</b>	No information available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid contact with the skin and eyes. Wear protective gloves, eye and face protection.
<b>Environmental Precautions:</b>	Prevent spilled material from entering water ways. Avoid release to the environment. Collect spillage.
<b>Methods and Materials for Containment and Cleaning up:</b>	<b>Small spills/leaks:</b> Clean up and absorb spills with inert material (sand, soil, hydrated lime or vermiculite) or another absorbent material (i.e. paper towel). and place in waste containers, labelled for disposal. Contain in a secure location until disposal method is established. Dispose of waste safely. Avoid release to the environment. <b>Large spills/leaks:</b> Prevent spillage from entering drains or water ways and call emergency services.

## SECTION 7: HANDLING AND STORAGE

<b>Handling:</b>	Read the storage/handling precautions on the product label. Do not breathe mist/vapours. Wash hands thoroughly after handling. Wear protective gloves, eye and face protection Contaminated work clothing should not be allowed out of the workplace.
<b>Certified handler:</b>	Not applicable
<b>Tracking:</b>	Not applicable
<b>Storage:</b>	Store below 30°C away from direct sunlight, in the original container, tightly closed in a safe place.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits:</b>	No information available
<b>Engineering Controls:</b>	Use in a well-ventilated area or other engineering controls to keep airborne levels below recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.
<b>Ventilation:</b>	Use in a well-ventilated area.
<b>Eye Protection:</b>	Prevent eye contact, use safety goggles. Maintain eye wash facilities in work areas.
<b>Skin Protection:</b>	Prevent skin contact, wear appropriate protective gloves when handling this product.
<b>Protective Material Types:</b>	Protective clothing be made from rubber or PVC.



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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white liquid
Odour:	Slightly aromatic
Odour threshold:	No information available
pH:	3.5-4.5
Melting point/freezing point:	No information available
Initial boiling point and boiling range:	99°C
Flash point:	51°C
Flammability:	No information available
Upper/lower flammability or explosive limits:	No information available
Vapour pressure:	Low
Vapour density:	Very low
Specific gravity:	1.09-1.19
Solubility in water:	Disperses
Partition coefficient: n-octanol/water:	No information available
Auto-ignition temperature:	No information available
Decomposition temperature:	No information available
Kinematic viscosity:	1600-2200Mpa.s

## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive under normal conditions.
Conditions to avoid	Store below 30°C away from direct sunlight, in the original container, tightly closed in a safe place.
Incompatibilities:	No information available
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD <sub>50</sub> (rat): >4640 mg/kg
Skin corrosion/irritation:	No information available
Serious eye damage/irritation:	<b>Diflubenzuron (active ingredient):</b> Eye Irrit. 2 H319: Causes serious eye irritation Classification key study: Eye Irritation Species: Rabbit Result: Irritant Reference source: [REDS]
Respiratory or skin sensitisation:	No information available
Germ cell mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive toxicity:	No information available



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**Specific target organ toxicity – single exposure:** No information available

**Specific target organ toxicity – repeated exposure:**

**Diflubenzuron:**

STOT Rep.Exp. 2

H373: May cause damage to organs through prolonged or repeated exposure.

Classification key study:

Repeated dose toxicity

Oral Route

Primary Organ Effected: Blood and the Hematopoietic system

In a 13-week feeding study technical grade diflubenzuron was administered in the diet to beagle dogs at dose levels of 0 (control), 10, 20, 40 or 160 ppm (equal to 0, 0.42, 0.84, 1.64 or 6.24 mg/kg/day). Ophthalmoscopic examinations were negative. Methemoglobinemia was observed in the dogs at 6.24 mg/kg/day (after 6 weeks). No gross necropsy, organ weight or histopathological changes were reported at any level that could be related to treatment. The NOEL is 1.64 mg/kg/day. The LEL is 6.24 mg/kg/day, based on increased methemoglobinemia. (MRID 00038706) [REDS]

**Aspiration hazard:** No information available

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity-Aquatic:**

**Diflubenzuron (active ingredient):**

Aquatic Acute 1

H400: Very toxic to aquatic life.

Classification key study:

**Fish:**

Dose Descriptor: LC50

Effect concentration: 57 mg/L

Species: Cutthroat trout (*Oncorhynchus clarki*)

Type of exposure:

Duration: 96 hr

Endpoint: LC50

Value: 57ppm (= 57 mg/l)

Reference source: [EPA PESTICIDES DB]

**Aquatic Invertebrates:**

Dose Descriptor: LC50

Effect concentration: 0.0037 mg/L

Species: *Daphnia magna*

Type of exposure:

Duration: 48 hr

Endpoint: LC50

Value: 3.7ppb (= 0.0037 mg/l)

Reference source: [REDS]

**Freshwater Algae and Cyanobacteria:**

Acute Endpoint: 96hr EC50

Acute Value: >0.3 mg/L



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	<b>Aquatic Chronic 1</b> H410: Very toxic to aquatic life with long lasting effects. Classification key study:
	<b>Freshwater Algae and Cyanobacteria</b> Acute Endpoint: 96hr EC50 Acute Value: >0.3 mg/L
<b>Ecotoxicity-Terrestrial:</b>	Nil
<b>Persistence and degradability:</b>	<b>Diflubenzuron (active ingredient):</b> H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. Classification key study: Biodegradation in water: not biodegradable
<b>The potential to be bioaccumulative:</b>	<b>Diflubenzuron (active ingredient):</b> H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. Classification key study: Bioaccumulation BCF (aquatic species): 360 dimensionless Bioaccumulative: No
<b>Mobility in soil:</b>	Nil
<b>Other adverse effects:</b>	No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal:** Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or other approved facility.

## SECTION 14: TRANSPORT INFORMATION

<b>UN Number:</b>	UN 3082
<b>UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Diflubenzuron)
<b>UN dangerous goods class and subsidiary risk:</b>	9
<b>UN Packaging Group:</b>	III
<b>Environmental hazards:</b>	Marine pollutant
<b>Special precautions when transporting the substance:</b>	In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call 0800 CHEMCALL (0800 243 622). If additional safety information is required, refer to the Safety Data Sheet.
<b>Hazchem Code</b>	3Z

**Transport of Dangerous Goods Pictogram**





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## SECTION 15: REGULATORY INFORMATION

HSNO Approval number: HSR100759

ACVM registration number: A011628

## SECTION 16: OTHER INFORMATION

### Abbreviations:

CAS number:	Chemical Abstracts Service Registry Number
ACVM:	Agricultural Compounds and Veterinary Medicines
GHS:	Globally Harmonized System
HSNO:	Hazardous Substances & New Organisms Act
UN Number:	United Nations Number
EPA:	Environmental Protection Authority
LD50:	Lethal Dose, 50 percent
LC50:	Lethal Concentration, 50 percent
EC50:	Effective-Concentration
STOT	Specific Target Organ Toxicity
NOEL:	No-Observed Effect Level
NOEC:	No-Observed Effect Concentration
NOAEL:	No Observed Adverse Effect Level

### Disclaimer:

*The Safety Data Sheet has been developed according to EPA New Zealand guidelines.*

*The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof.*

*The purpose of this Safety Data Sheet is to describe product in terms of their safety requirements.*

*Agvet NZ Ltd makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product").*

*The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use of the product.*

*The physical data shown herein are typical values based on material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.*

*Due care should be taken to make sure that the use or disposal of this product is in compliance with relevant Government and Local Government regulations*