



SAFETY DATA SHEET

Product Name: UNLOCK COMBINATION

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Issued: 9 December 2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name: UNLOCK COMBINATION

Product use: Ectoparasiticide. Protection against blowfly strike, the control of lice and as an aid in the control of cackle 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: Skin irritation Category 2
Eye irritation Category 2
Skin sensitisation Category 1
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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Hazard statement:	H315: Causes skin irritation H319: Causes serious eye irritation H317: May cause an allergic skin reaction 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.
Prevention statement:	P260: Do not breathe mist/vapours. P264: Wash hands thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/eye protection /face protection
Response statement:	P314: Get medical advice/attention if you feel unwell. P321: See first aid instruction on the product's label. P302 + P352: IF ON SKIN: Wash with plenty water. P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention. 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. P362 + P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage.
Disposal statement:	P501: Follow the label directions. Also see Section 13 (DISPOSAL CONSIDERATIONS)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	Content
Diflubenzuron	35367-38-5	10%
Cyromazine	66215-27-8	25%
Other ingredients	NA	To 100

SECTION 4: FIRST-AID MEASURES

General Information:	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
Inhalation:	If inhaled, Remove to fresh air. Get medical attention if symptoms persist.
Skin Contact:	Wash skin well with plenty water. Get medical attention if irritation persists.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion:	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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with the skin and eyes. Wear protective gloves, eye and face protection.
Environmental Precautions:	Prevent spilled material from entering water ways. Avoid release to the environment. Collect spillage.
Methods and Materials for Containment and Cleaning up:	Small spills/leaks: 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. Large spills/leaks: Prevent spillage from entering drains or water ways and call emergency services.

SECTION 7: HANDLING AND STORAGE

Handling:	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.
Certified handler:	Not applicable
Tracking:	Not applicable
Storage:	Store below 30°C away from direct sunlight, in the original container, tightly closed in a safe place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:	No information available
Engineering Controls:	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.
Ventilation:	Use in a well-ventilated area.
Eye Protection:	Prevent eye contact, use safety goggles. Maintain eye wash facilities in work areas.



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Skin Protection: Prevent skin contact, wear appropriate protective gloves when handling this product.

Protective Material Types: Protective clothing be made from rubber or PVC.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Brown liquid

Odour: Inodorous nearly

Odour threshold: No information available

pH: 8.0-10.0

Melting point/freezing point: No information available

Initial boiling point and boiling range: 99°C

Flash point: >100°C

Flammability: No information available

Upper/lower flammability or explosive limits: No information available

Vapour pressure: Low

Vapour density: No information available

Relative density: 1.05-1.16

Solubility (ies): 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: 200-600Mpa.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.



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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Cyromazine (active ingredient):

Acute Tox. 4

Oral

H302: Harmful if swallowed

Classification key study:

Dose Descriptor: LD50

Value: 1467 mg/kg bw

Oral Route

Species: Rabbit

Endpoint: LD50

value: 1467 mg/kg

Reference source: (807. Cyromazine (Pesticide residues in food: 1990 evaluations Toxicology)) [INCHEM]

Skin corrosion/irritation:

No information available

**Serious eye damage/
irritation:**

Diflubenzuron (active ingredient):

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

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

No information available

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

Diflubenzuron (active ingredient):

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]



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Cyromazine (active ingredient):

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

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

Aquatic Chronic 1

H410: Very toxic to aquatic life with long lasting effects.
Classification key study:

Freshwater Algae and Cyanobacteria

Acute Endpoint: 96hr EC50
Acute Value: >0.3 mg/L

Ecotoxicity-Terrestrial:

Cyromazine (active ingredient):

Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates
Hazardous to soil organisms

Persistence and degradability:

Diflubenzuron (active ingredient):

H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
Classification key study:
Biodegradation in water: not biodegradable



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The potential to be bioaccumulative:

Diflubenzuron (active ingredient):

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

Mobility in soil:

Cyromazine (active ingredient):

Hazardous to soil organisms

Other adverse effects:

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

UN Number:

UN 3082

UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains Diflubenzuron)

UN dangerous goods class and subsidiary risk:

9

UN Packaging Group:

III

Environmental hazards:

Marine pollutant

Special precautions when transporting the substance:

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.

Hazchem Code

3Z

Transport of Dangerous Goods Pictogram



SECTION 15: REGULATORY INFORMATION

HSNO Approval number:

HSR100759

Veterinary Medicines (Non-dispersive Open System Application) Group
Standard 2020

ACVM registration number:

A011637



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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