

Product Name: UNLOCK POUR ON

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Issued: 9 December 2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name: UNLOCK POUR ON

Product use: Ectoparasiticide.

For the control of lice, and for up to 14 weeks prevention of flystrike, on

sheep

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

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

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SECTION 2: HAZARDS IDENTIFICATION

HSNO Approval number: HSR100759

Veterinary Medicines (Non-dispersive Open System Application) Group

Standard 2020

GHS Classification: Eye irritation Category 2

Skin sensitisation Category 1

Specific target organ toxicity (repeated exposure) Category 2

Hazardous to the aquatic environment acute Category 1
Hazardous to the aquatic environment chronic Category 1

Signal word: Warning

GHS Pictogram:









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Hazard statement: 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	2%
*Deltamethrin	52918-63-5	1%
Formalin+	50-00-0	<1%
Ψ A . (' ' l' (

*Active ingredient

+Confidential manufacturing information



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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.

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 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 (i.e. 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.



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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.

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: Aqueous liquid

Odour: No information available Odour threshhold: No information available

6.0-7.5

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: Iow

Vapour density: No information available

Relative density: 0.99-1.02

Solubility (ies): Solubility in water: Disperses Partition coefficient: n-No information available

octanol/water:

Auto-ignition temperature: No information available **Decomposition temperature:** No information available

Kinematic viscosity: 1400-2200 Mpa.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

Under normal conditions of storage and use, hazardous decomposition products products:

should not be produced.



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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Deltamethrin (active ingredient):

Acute Tox. 2

(Oral)

H300: Fatal if swallowed. Classification key study: Dose Descriptor: LD50 Value: 31 mg/kg bw

Oral Route Species: Rat (F) Endpoint: LD50 Value: 31 mg/kg

Reference source: [WHO; Environmental Health Criteria 97: Deltamethrin

p.61 (1990)]**PEER REVIEWED** [HSDB]

Remark: Administered in peanut oil.

Acute Tox. 3 (Dermal)

H311: Toxic in contact with skin.

Classification key study: Dose Descriptor: LD50 Value: 700 mg/kg bw **Dermal Route**

Species: Rat Endpoint: LD50 Value: 700 mg/kg

Reference source: [WHO; Environmental Health Criteria 97: Deltamethrin

p.61 (1990)]**PEER REVIEWED** [HSDB]

Acute Tox. 3 (Inhalation)

Classification description: H331: Toxic if inhaled. Classification key study:

Physical Form: inhalation: dust / mist

Dose Descriptor: LC50 Value: 0.79 mg/L air Inhalation Route Species: Rat Endpoint: LC50

Value: 790 mg/m3 (= 0.79 mg/l)

Reference source: (Pesticide residues in food 2000 : DELTAMETHRIN.

JMPR) [INCHEM]

R-Phrase: R 23 Toxic by inhalation. [NCLASS]

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]



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Deltamethrin (active ingredient):

Classification key study:

Skin Irritation

Species:

Result: The substance is irritating to the eyes, the skin and the respiratory tract. Reference source: (Deltamethrin ICSC: 0247 Date of peer-review: March 2001)

[INCHEM] Eye Irritation Species:

Result: The substance is irritating to the eyes, the skin and the respiratory tract. Reference source: (Deltamethrin ICSC: 0247 Date of peer-review: March 2001)

[INCHEM]

Respiratory or skin

sensitisation:

No information available

Germ cell mutagenicity: No information available Carcinogenicity: No information available Reproductive toxicity: No information available No information available

Specific target organ toxicity

- single exposure:

Diflubenzuron (active ingredient):

Specific target organ toxicity

- repeated exposure:

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]

Deltamethrin (active ingredient):

STOT Rep.Exp. 1

H372: Causes damage to organs through prolonged or repeated exposure.

Classification key study: Repeated dose toxicity

Oral Route

Primary Organ Effected: Neurotoxicity (nervous system)

Inhalation Route

Primary Organ Effected: Neurotoxicity (nervous system)

Studies of repeated administration by inhalation, orally, and dermally to mice, rats, rabbits, guinea-pigs, and dogs showed that deltamethrin induces mainly agitation, hypersensitivity, impaired locomotor activity, and reduced body-weight gain. The NOAEC was 9.6 mg/m3 (equivalent to 2.6 mg/kg bw) in a 3-week study in rats in which the LOAEC was 56 mg/m3. (Pesticide residues in food 2000: DELTAMETHRIN. JMPR) [INCHEM]

Aspiration hazard: No information available



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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

Deltamethrin (active ingredient):

Aquatic Acute 1

H400: Very toxic to aquatic life.

Fish

Dose Descriptor: LC50

Effect concentration: 0.00025 mg/L

Acute

Species: Oncorhynchus mykiss Rainbow trout, donaldson trout

Type of exposure: Flow through

Duration: 96 hr Endpoint: LC50

Value: 0.25 ppb (= 0.00025 mg/l)

Reference source: Ref No: 344. Office of Pesticide Programs (2000) Environmental Effects Database (EEDB) Environmental Fate and Effects

Division, U.S.EPA, Washington, D.C. [ECOTOX]

Chronic

Species: Fathead minnow (Pimephales promelas)

Type of exposure: Duration: 280 day Endpoint: NOEC

Value: 0.017 ppb (= 0.000017 mg/l) Reference source: [USEPA PEST]



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Aquatic Invertebrates

Dose Descriptor: LC50

Effect concentration: 0.0000017 mg/L

Acute

Species: *Mysid*Type of exposure:
Duration: 96 hr
Endpoint: LC50

Value: 0.0017 ppb (= 0.0000017 mg/l) Reference source: [USEPA OPP tox db]

Chronic

Species: Water flea (Daphnia magna)

Type of exposure: Duration: 21 day Endpoint: NOEL

Value: 0.0041 ppb (= 0.0000041 mg/l) Reference source: [USEPA PEST] Freshwater Algae and Cyanobacteria

Aquatic Chronic 1

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

Fish

Dose Descriptor: NOEC

Effect concentration: 0.000017 mg/L

Acute

Species: Oncorhynchus mykiss Rainbow trout, donaldson trout

Type of exposure: Flow through

Duration: 96 hr Endpoint: LC50

Value: 0.25 ppb (= 0.00025 mg/l)

Reference source: Ref No: 344. Office of Pesticide Programs (2000) Environmental Effects Database (EEDB) Environmental Fate and Effects

Division, U.S.EPA, Washington, D.C. [ECOTOX]

Chronic

Species: Fathead minnow (Pimephales promelas)

Type of exposure: Duration: 280 day Endpoint: NOEC

Value: 0.017 ppb (= 0.000017 mg/l) Reference source: [USEPA PEST]

Aquatic Invertebrates

Endpoint: NOEL

Value: 0.0000041 mg/L

Acute

Species: *Mysid*Type of exposure:
Duration: 96 hr
Endpoint: LC50

Value: 0.0017 ppb (= 0.0000017 mg/l) Reference source: [USEPA OPP tox db]



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Chronic

Species: Water flea (Daphnia magna)

Type of exposure: Duration: 21 day Endpoint: NOEL

Value: 0.0041 ppb (= 0.0000041 mg/l) Reference source: [USEPA PEST] Freshwater Algae and Cyanobacteria **Deltamethrin (active ingredient):**

Ecotoxicity-Terrestrial: Deltamethrin (active ingredient):

Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates

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

Deltamethrin (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): 1300 dimensionless

Bioaccumulative: Yes

In a static system for a 24-hr exposure period, deltamethrin BCFs of about 200 to 1300 were measured for Daphnia magnus(1); observed BCFs decreased with increases in dissolved organic carbon(1). BCF values of 39-303 were measured in larvae of the midge Chronomus tentans in sand, silt or clay sediment water systems(2). In a pond study using radio-labelled C-14 deltamethrin, fathead minnows (Pimephales promelas) accumulated levels of extractable radioactivity 248-907 times higher than levels in the water at 24-hr after exposure although the nature of the radioactive compounds was not provided(3). According to a classification scheme (4), these BCF values suggest that the potential for bioconcentration in aquatic organisms is high (SRC). [(1) Day KE; Environ Toxicol Chem 10: 91-101 (1991) (2) Muir DCG et al; Environ Toxicol Chem 4: 51-61 (1985) (3) Muir DCG et al; J Agric Food Chem 33: 603-9 (1985) (4) Franke C et al;

Chemosphere 29: 1501-14 (1994)]**PEER REVIEWED**

[HSDB]

Biodegradation in water: not biodegradable



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The potential to be Diflubenzuron (active ingredient): bioaccumulative:

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

Deltamethrin (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): 1300 dimensionless

Bioaccumulative: Yes

In a static system for a 24-hr exposure period, deltamethrin BCFs of about 200 to 1300 were measured for Daphnia magnus(1); observed BCFs decreased with increases in dissolved organic carbon(1). BCF values of 39-303 were measured in larvae of the midge Chronomus tentans in sand, silt or clay sediment water systems (2). In a pond study using radio-labelled C-14 deltamethrin, fathead minnows (Pimephales promelas) accumulated levels of extractable radioactivity 248-907 times higher than levels in the water at 24-hr after exposure although the nature of the radioactive compounds was not provided(3). According to a classification scheme (4), these BCF values suggest that the potential for bioconcentration in aquatic organisms is high (SRC). [(1) Day KE; Environ Toxicol Chem 10: 91-101 (1991) (2) Muir DCG et al; Environ Toxicol Chem 4: 51-61 (1985) (3) Muir DCG et al; J Agric Food Chem 33: 603-9 (1985) (4) Franke C et al;

Chemosphere 29: 1501-14 (1994)]**PEER REVIEWED**

[HSDB]

Biodegradation in water: not biodegradable

Mobility in soil: Deltamethrin (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, Deltamethrin)

UN dangerous goods class

and subsidiary risk:

9

UN Packaging Group: Ш

Environmental hazards: Marine pollutant



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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.

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: A011630

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