

Safety Data Sheet

Ravensdown Flumethrin

Created: November 2017

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Ravensdown Flumethrin
Recommended Use:	For the control of ticks on cattle and as an aid in the treatment of ticks on deer.
Company Identification:	Ravensdown Limited
Address:	292 Main South Road Hornby Christchurch
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency:	111 Fire and Police

Section 2: HAZARD IDENTIFICATION

Hazard Classifications: 6.9B, 9.1C, 9.4C
Priority Identifiers: WARNING



Secondary Identifiers:
 6.9B = May cause damage to skin from repeated oral exposure
 9.1C = Harmful to aquatic life with long lasting effects
 9.4C = Harmful to terrestrial invertebrates

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Flumethrin	69770-45-2	1.0%

Section 4: FIRST AID MEASURES

General Information:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning. IF medical advice is needed, have product container or label at hand.
Inhalation:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion:	If swallowed DO NOT induce vomiting. Rinse mouth. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately advising name of product.
Skin Contact:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance. If skin irritation or rash occurs, get medical advice.
Eye Contact:	If splashed in eyes flush with plenty of water for for several minutes, holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice.

Section 5: FIRE FIGHTING MEASURES

Flammability:	Not classified as flammable
Hazardous Combustion Products:	If involved in a fire, may evolve carbon monoxide
Extinguishing Media:	Water fog, foam, carbon dioxide or dry chemical

Protective Equipment:	Full protective clothing and self-contained breathing apparatus
HAZCHEM Code:	3Z
Location Certificate:	Not applicable
Hazardous Atmosphere Zone:	Not applicable
Fire Extinguishers:	Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. See Section 8 of the SDS for Personal Protective Equipment.
Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Reposition any leaking containers so as to minimise further leakage. Contain spill, Dam and absorb spill with an absorbent material (e.g. sand, soil or absorbent granules) and place in a sealable waste container or use according to label directions. Dispose of waste safely in an approved landfill.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling:	Keep out of reach of children. Read label before use. Avoid contact with hands and skin. Do not breathe vapour. Wear protective gloves. Wash skin thoroughly after handling. Certified Handler: Not required. Tracking: Not required. Record Keeping: Records of use must be kept.
Storage:	Store below 25° (room temperature). Do not freeze. Store in tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight when not in use. Store away from foodstuffs, children and animals. Keep container sealed when not in use. This product is subject to emergency response plan, secondary containment and signage when stored in quantities of 100L or more, either alone or in aggregate with substances of the same hazard classification. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
Other Information:	Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	No exposure limits have been assigned for this product.
Protective Equipment:	When opening the container and using the product wear protective clothing including waterproof gloves and eye protection, to avoid skin and eye contact.
Engineering Controls:	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of mist.
Hygiene Precautions:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow oily solution
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available

Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	0.85
Solubility (ies):	Insoluble in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available

Section 10: STABILITY AND REACTIVITY

Stability:	When stored appropriately this product should show no significant degradation for 36 months from the date of manufacture.
Hazardous Polymerisation:	Hazardous polymerisation will not occur
Materials to Avoid:	None known
Conditions to Avoid:	None known
Hazardous decomposition products:	No hazardous products are expected, except when heated to decomposition.

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.9B
Acute toxicity:	
Oral:	Flumethrin: LD50, rat: 41 mg/kg bw
Dermal:	Flumethrin: LD50, rat: 2000 mg/kg bw
Aspiration hazard:	No information available
Respiratory irritation:	No information available
Skin corrosion/irritation:	Mild irritant
Eye damage/ irritation:	Flumethrin: Rabbit: a 1% pour-on formulation of flumethrin produced slight erythema of the conjunctivae for up to 48 h after treatment and slight oedema of the conjunctivae for up to 24 h after treatment.
Respiratory or skin sensitisation:	No information available
Mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive toxicity:	No information available
Specific organ toxicity:	Flumethrin: EndPoint: LOAEL, Primary Organ: Dermatotoxicity (skin)
Narcotic effects:	No information available

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	9.1C, 9.4C
Ecotoxicity:	
Aquatic:	Acute daphnia toxicity: EC50 (48hr) 0.0027 mg/L Water flea (<i>Daphnia magna</i>) Acute fish toxicity: LC50 (96hr) 0.17 mg/L Trout (<i>Oncorhynchus mykiss</i>) Concentrations down to 0.5mg/L are toxic to goldfish IC50 (72 hr) 0.59 mg/L Green algae (<i>Desmodesmus subspicatus</i>)
Terrestrial Vertebrates:	Flumethrin: LD50, rat: 41 mg/kg bw
Terrestrial Invertebrates:	No information available
Persistence/Mobility:	No information available
Bioaccumulation:	K – 1.56 not bioaccumulative

Section 13: DISPOSAL INFORMATION

Product Disposal:	Dispose of product only by using according to label or at an approved landfill
Container Disposal:	Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Crush and bury in an approved landfill if an approved recycling system is not available. Do not burn. Do NOT use container for any other purpose.

Section 14: TRANSPORT INFORMATION

UN Number:	3082
-------------------	------

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flumethrin)
DG Class: 9
Packing Group: III
Environmental hazards: Marine pollutant
Special precautions when transporting the substance: Avoid release to the environment.

Section 15: REGULATORY INFORMATION

ACVM: Registered pursuant to the ACVM Act 1997, A011502
See www.foodsafety.govt.nz for registration conditions

EPA: Approved pursuant to the HSNO Act 1996, Code: HSR001801
See www.epa.govt.nz for approval controls.

Section 16: OTHER INFORMATION

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.