

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Fleecemaster
Product code:	A7849
Recommended use:	For the control of blowfly strike and lice on sheep, including lice resistant to synthetic pyrethroids and flies resistant to organophosphates.
Company details:	Merial Ancare
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Merial Ancare Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
Date of preparation:	4 April 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Liquid	
Product components:		
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Diflubenzuron	35367-38-5	250.0
Other		to 1L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.4A, 6.5B, 6.9B, 9.1A
Priority and secondary identifiers:	WARNING Dangerous to the environment
Risk and safety phrases:	6.4A May cause eye irritation. Avoid contact with eyes. 6.5B Repeated exposure may cause skin allergy. Avoid skin contact. 6.9B Diflubenzuron possibly may affect the blood and haematopoietic system. Handle with care. 9.1A Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. <u>Ingestion</u> : If swallowed seek medical attention. Do NOT induce vomiting. <u>Eyes</u> : If splashed in eyes wash out immediately with water. <u>Skin</u> : If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water. <u>Inhalation</u> : Remove to fresh air.
Workplace facilities:	No special facilities required.
Required instructions:	Observe good work practices and avoid skin contact. Wash hands and exposed skin before meals and after use. Do not eat or drink while using. Launder protective clothing separately from other

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Notes for medical personnel: clothing, and before each reuse.
Apply symptomatic therapy (no specific antidote).
Note the nature of the product.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard: Non flammable, Non combustible, Non explosive
Fire hazard properties: Fleecemaster is not classified as flammable, and will not support combustion. Hazardous fumes when heated to decomposition.
Regulatory requirements: Not applicable
Extinguishing media and methods: Treat the fire as for the other materials present. Do not allow water to enter drains.
Hazchem code: 2X
Recommended protective clothing: When fighting a major fire wear full protective clothing including breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear suitable protective clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Avoid contamination of water courses or sewers. Dispose of waste safely.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Apply with well-maintained and calibrated equipment. Handle with care.
Regulatory requirements: N/A
Handling practices: N/A
Approved handlers: Not required
Conditions for safe storage: Store below 30°C in the closed original container in a dry, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep out of reach of children.
Store site requirements: This substance is subject to a requirement for an emergency management plan, containment and signage, whenever it is held in quantities of 100L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging: Packaging Schedule 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards: Dusts 10mg/m³
Application in the workplace: Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
Exposure standards outside the workplace: TEL: Diflubenzuron, 0.045mg/m³ air
EEL: Diflubenzuron, 0.0002mg/l water
EEL: Diflubenzuron, application rate 40g/ m³ in compost
Engineering controls: Ensure that ventilation maintains dust levels below WES.
Personal protection: Clothing should consist of overalls with long sleeves and impervious gloves.

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References: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data: Formulation type: Suspension
Appearance: Off-white to light tan liquid
Specific gravity: ~1.05 – 1.16 g/ mL
pH: ~3.0 – 4.5
Vapour Pressure: NA
Solubility in Water: [active ingredient] insoluble

Required specifications: N/A
Further specifications: N/A
Specific advice: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance: Stable under normal conditions of use and storage.
Conditions to avoid: No specific conditions to avoid.
Material to avoid: No specific materials to avoid.
Hazardous decomposition products: No hazardous products are expected, except when heated to decomposition.
Hazardous polymerization: Components are not expected to form hazardous polymers.
Specific data: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation: May cause eye irritation. Repeated exposure may cause skin allergy. Diflubenzuron possibly may affect the blood and haematopoietic system

Summaries data: Diflubenzuron: Low acute toxicity [LD₅₀ (oral) > 4.64 g/kg; LD₅₀ percutaneous >2 g/kg]. A mild eye irritant. Repeated oral dose studies in laboratory species showed a consistent dose related increase in methaemoglobin and sulfahaemoglobin in blood, a fall in erythrocyte, PCV and haemoglobin levels and a dose related increase in spleen and liver weights. In a chronic feeding study (dogs) methaemoglobinaemia was observed after 6 weeks (LOAEL 6.24mg/kg/d).

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions: Very toxic to aquatic organisms

Data organisation : Diflubenzuron: Insecticidal activity is due to inhibition of chitin synthesis (preventing juvenile stages from reaching adulthood). Toxicity to mammals and birds in low (LD₅₀ values in the range of 4.5 to 10 g/kg). Diflubenzuron is particularly harmful to aquatic species with larval stages involving chitin, such as copepods, diaptomus species, cladocerans and amphipods [LC₅₀ Cut throat trout 57mg/l/96 hr; LC₅₀ *Daphnia magna* 0.0031mg/l/48 hr]. Rapidly degraded in soil and water.

Environmental risk and safety phrases: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflubenzuron 25%)

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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Burn empty container in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill. Do NOT use container for any other purpose.

SECTION 14: TRANSPORT INFORMATION

Relevant information:

Dangerous Goods for transport.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Diflubenzuron 25%)
UN Number: 3082
Dangerous Goods Class: 9

Other requirements:

The maximum quantity per package of this substance allowed for carriage on public transport is 1L.
N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A7849
See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act, Approval Code HSR001833
See www.epa.govt.nz for approval conditions

HSNO and ACVM controls:

SDS is required for quantities greater than or equal to 1L

List exposure limits:

Refer to Section 3
N/A

SECTION 16: OTHER INFORMATION

Additional information:

For product information visit the Merial website www.merial.co.nz
While the information set forth is believed to be accurate as of the date hereof, MERIAL NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.