

SAFETY DATA SHEET

Magnum®

Section 1: Identification of the Substance and Supplier

Product name	Magnum Solution containing 1.7 - 3.2% diflubenzuron
Recommended use	Fly and Lice pour-on for sheep
Company details	Schering-Plough Animal Health Limited 33 Whakatiki Street, Upper Hutt Phone: 0800 800 543 Fax: 0800 808 100 Website: www.spah.co.nz Hours 8am – 5 pm, Mon – Fri
Emergency telephone	0800 764 766 (0800 POISON) 24 hours human health 0800 243 622 (0800 CHEMCALL) 24 hours
Date of preparation	March 2008

Section 2: Hazards Identification

Hazard classifications	6.9B. 9.1A
Priority identifiers	Warning Ecotoxic
Secondary identifier	6.9B May causes damage to blood and the haematopoietic system through prolonged or repeated oral exposure at high doses. 9.1A Very toxic to aquatic life with long lasting effects
Risk & Safety Phrases	R50 Very toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Diflubenzuron	35367-38-5	2.5%
Propylene Glycol	57-55-6	<10%
Nonyl Phenyl Ethoxylate	9016-45-9	<10%

Section 4: First Aid Measures

Necessary first aid measures

Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

SKIN CONTACT: In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

EYE CONTACT: In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

INGESTION: Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or National Poisons Centre. If symptoms persist, consult a doctor.

SAFETY DATA SHEET

Magnum®

Page 2 of 4

Required instructions	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
Notes for medical personnel	Inhalation: remove to fresh air & provide oxygen if breathing is difficult
Workplace facilities	Emergency showers and eyewashes may be warranted depending on quantity and type of use.

Section 5: Fire Fighting Measures

Type of hazard	Not classified as flammable
Fire hazard properties	Not applicable
Regulatory requirements	Not applicable
Extinguishing media and methods	Water, carbon dioxide (CO ₂), foam, or dry chemical.
Hazchem code	2Z
Recommended protective clothing	Wear self-contained breathing apparatus (SCBA) plus protective gloves.

Section 6: Accidental Release Measures

Emergency procedures	Wear chemical resistant gloves and overalls, facemask or goggles. Prevent further spillage. Adsorb spilled product and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal. Avoid contamination of any water source or soil with product or empty container.
-----------------------------	--

Section 7: Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure Controls) for additional guidance.
Regulatory requirements	Signage required where quantities greater than 100L are present. Emergency Plan required where quantities greater than 100L are present.
Handling practices	Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.
Approved handlers	Not required.
Conditions for safe storage	Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Keep container sealed when not in use.
Store site requirements	Store in a cool, dry, well ventilated area.
Packaging	PG III

Magnum®

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	Propylene glycol: TWA 150ppm 474mg/m ³
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No TEL or EEL is set for this substance at this time
Personal protection	Wear chemical resistant gloves, facemask or goggles.
Engineering controls	The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

Section 9: Physical and Chemical Properties

Appearance	Purple aqueous suspension
Boiling Point	100°C
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	1.036 at 20°C
Solubility (H ₂ O)	Emulsifiable
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	Avoid high temperatures
Material to avoid	None
Hazardous decomposition products	Carbon oxides (CO _x).

Section 11: Toxicological Information

Acute effects for individual ingredient only

TEL	No TEL is set for this substance at this time.
-----	--

SAFETY DATA SHEET

Magnum®

Chronic/long term effects for individual ingredient only

Diflubenzuron: Mild eye irritant in rabbit [REDS]

Diflubenzuron: 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]

Section 12: Environmental Information

Effects for individual ingredient only

AQUATIC	Diflubenzuron: Cutthroat trout <i>Oncorhynchus clarki</i> 96 hr LC50 57ppm [EPA PESTICIDES DB], <i>Daphnia magna</i> Technical 43665801 Toxic 48hr LC50 = 3.7ppb Very Highly [REDS]
EEL	No EEL is set for this substance at this time

Section 13: Disposal Considerations

Disposal information

Disposal

Dispose of this product only by using according to the label, or at an approved landfill, or other approved facility. Avoid contamination of any water source or environment with product or empty container.

Container Disposal

Triple rinse empty container. Recycle at AgRecovery or crush/puncture and bury in an approved landfill.

Reference

Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Diflubenzuron)
Class 9 PG III
Limited quantities: 5L
Maximum quantity for own agricultural use: 250L

Other requirements

Refer to Haznote.

Section 15: Regulatory Information

Regulatory status

HSNO Approval Code: HSR001828.
For a full listing of controls see www.ermanz.govt.nz
ACVM registration number: A7704.
For conditions of registration see www.nzfsa.govt.nz/acvm

HSNO and ACVM controls

Signage: 100 Litres Emergency Plan: 100 Litres

Section 16: Other Information

Additional information

® Registered trademark of Schering-Plough Animal Health Limited

Schering-Plough urges each user or recipient of this SDS to read the entire data sheet to become aware of the potential hazards associated with this material. This SDS summarises, at the date of issue, our best knowledge of the health and safety hazard information. Although reasonable care has been taken in the preparation of this document, Schering-Plough Animal Health Ltd extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).