

Lice-Enz[®]

Section 1: Identification of the Substance and Supplier

Product name	Lice-Enz Liquid containing 10 – 15g/litre deltamethrin
Recommended use	For the control of biting lice on sheep
Company details	Intervet/Schering-Plough Animal Health Limited 33 Whakatiki Street, Upper Hutt 5018 Phone: 0800 800 543, Fax 0800 808 100. Website: www.intervet.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	May 2009

Section 2: Hazards Identification

Hazard classifications	6.3B, 6.4A, 6.5A 6.9B, 9.1A, 9.2C, 9.4A
Priority identifiers	Warning Ecotoxic
Secondary identifier	6.3B May cause mild skin irritation 6.4A May cause eye irritation 6.5A May cause allergy or asthma symptoms or breathing difficulties if inhaled 6.9B May cause damage to nervous system, through prolonged or repeated exposure or inhalation at high doses. 9.1A Very toxic to aquatic life with long lasting effects 9.2C Harmful to the soil environment 9.4A Very toxic to terrestrial invertebrates
Risk & Safety Phrases	R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed R50 Very toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Deltamethrin	52918-63-5	1%
Formaldehyde	50-00-0	0.1-1%
Propylene Glycol	57-55-6	<10%

Lice-Enz[®]**Section 4: First Aid Measures****Necessary first aid measures**

INHALATION: Remove to fresh air and provide oxygen if necessary. 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.

Required instructions

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

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

Carbon dioxide (CO₂), extinguishing powder or foam

Hazchem code

3Z (Contain spillage)

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.

Lice-Enz[®]**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 at room temperature (5 to 25°C), away from light. Keep out of reach of children.
Packaging	PG III

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	Formaldehyde: Ceiling 1ppm (1.2 mg/m ³) 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 is set for this substance at this time No 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.

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Section 9: Physical and Chemical Properties

Appearance	White liquid with light chemical odour
Boiling Point	100°C
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	1.002 @ 20°C
Solubility (H ₂ O)	Miscible
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures.
Material to avoid	Avoid food products
Hazardous decomposition products	Carbon oxides (CO _x).

Section 11: Toxicological Information

Acute effects for individual ingredients only

ORAL	Deltamethrin: LD50: 31 mg/kg bw in peanut oil (female rat) [HSDB] Formaldehyde: LD50 260 mg/kg body weight (Guinea Pig) [WHO EHC1989]
DERMAL	Deltamethrin: LD50: 700 mg/kg (rat) [HSDB] Formaldehyde: LD50 270 mg/kg (rabbit) Formaldehyde was severely irritating to the skin of rabbits.
INHALATION	Deltamethrin: Inhalation LC50 (2hr): 790 mg/m ³ (rat) [INCHEM] Formaldehyde: LC50 (4 hr): 412 ppm (mouse) [IUCRID 2000]
TEL	No TEL is set for this substance at this time.

Chronic/long term effects for individual ingredients only

Deltamethrin: 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.

Formaldehyde is a potent allergen and may cause contact dermatitis (irritant and allergic) from repeated exposure. Formaldehyde may also cause occupational allergic asthma. Other effects of chronic exposure include irritation as seen in acute exposure, sneezing, coughing, headache, or laryngitis. Long-term, repeated exposure to formaldehyde has also been associated with an increased risk of cancers of the bone marrow, lungs, mouth, nasal passages and sinuses.

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Section 12: Environmental Information

Effects for individual ingredients only.

AQUATIC	Deltamethrin: 96-hr LC50 (rainbow trout): 0.25mg/L [ECOTOX]
SOIL	Deltamethrin: LC50 (earthworms): 28.57 mg/kg soil [ERMA]
TERRESTRIAL VERTEBRATES	Deltamethrin: LC50 (female rats): 31 mg/kg bw [HSDB]
TERRESTRIAL INVERTEBRATES	Deltamethrin: 24-hr LD50 on musca domestica (house fly): 0.0125 µg [ECOTOX]
EEL	No EEL is set for this substance at this time.

Section 13: Disposal Considerations

Disposal information	<p>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 the environment with product or empty container.</p> <p>Container Disposal Triple rinse empty container. Recycle at Agrecovery or crush/puncture and bury in a suitable landfill.</p>
Reference	Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin) 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: HSR002226. For a full listing of controls see www.ermanz.govt.nz ACVM registration number: A009432. 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	Lice-ENZ is a registered trademark of Intervet Limited
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Schering-Plough Animal Health Limited 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 Limited 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).