

SAFETY DATA SHEET

Erase[®] Jetting Liquid

Section 1: Identification of the Substance and Supplier

Product name	Erase Jetting Liquid Ivermectin Solution
Recommended use	Control of flystrike and lice on 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	August 2007

Section 2: Hazards Identification

Hazard classifications	6.1D, 6.8C, 6.9B, 9.1A, 9.2C, 9.3C, 9.4A
Priority identifiers	Warning - Keep out of reach of children Ecotoxic
Secondary identifier	6.1D May be harmful if swallowed 6.8C May cause harm to breast-fed children from repeated oral exposure 6.9B May cause damage to organs from repeated oral exposure at high doses 9.1A Very toxic to aquatic life 9.2C Harmful to the soil environment 9.3C Harmful to terrestrial vertebrates 9.4A Very toxic to terrestrial invertebrates
Risk & Safety Phrases	R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed R64 May cause harm to breast-fed babies R50 Very toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Ivermectin	70288-86-7	1.68%

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Section 4: First Aid Measures

Necessary first aid measures	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
Required instructions	<p>For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.</p>
Notes for medical personnel	<p>Ingestion: don't induce vomiting if unconscious/drowsy. If within 15 minutes of ingestion, give no more than 2 glasses of water & 2 tablespoons syrup of ipecac to induce vomiting.</p> <p>Inhalation: remove to fresh air & provide oxygen if breathing is difficult</p>
Workplace facilities	<p>Emergency showers and eyewashes may be warranted depending on quantity and type of use.</p>

Section 5: Fire Fighting Measures

Type of hazard	Not classified as flammable
Fire hazard properties	Flash point >93°C
Regulatory requirements	Not applicable
Extinguishing media and methods	Water, carbon dioxide (CO ₂), foam, or dry chemical.
Hazchem code	2X
Recommended protective clothing	Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Emergency procedures	<p>Wear chemical resistant overalls and gloves, 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.</p>
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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 is required for quantities greater than 100L. Emergency management plans are required wherever more than 100L is present.
Handling practices	Avoid contact with eyes. 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. Store away from foodstuffs, children and animals. Keep container sealed when not in use.
Store site requirements	Store in a cool, dry, well ventilated area.
Packaging	PG III

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	Propylene glycol TWA (vapour & particulates) 150ppm (474mg/m ³)
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No tolerable exposure limit (TEL) or environmental exposure limit (EEL) are set for this substance at this time.
Personal protection	<p>In small-scale or laboratory operations, lab coats or equivalent protection and safety glasses with side shields are required. For large scale use or where exposure is likely, wear chemical resistant overalls such as PVC, chemical resistant gloves, facemask or goggles.</p> <p>If the potential airborne breathing zone concentration approaches the relevant exposure limit(s), respiratory protection must be worn. Use a personal protection: filter respirator for organic gases and vapours.</p>
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	Clear to pale yellow liquid
Boiling Point	Not determined
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	1.02 - 1.05 at 20°C
Solubility (H ₂ O)	Soluble
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	None
Material to avoid	Keep away from foodstuffs
Hazardous decomposition products	No dangerous decomposition is expected if used according to manufacturer's specifications.

Section 11: Toxicological Information

Acute effects for individual ingredient only

ORAL	Ivermectin: LD50 11.6 mg/kg (male mouse) [INCHEM]
DERMAL	Ivermectin: Dermal LD50: >660 mg/kg (rat); 406 mg/kg (rabbit)
TEL	No TEL is set for this substance at this time.

Chronic/long term individual for active ingredient only

Ivermectin: A LOAEL of 0.4 mg/kg/bw was reported in a rat study [INCHEM]
Ivermectin: A NOAEL of 0.1 mg/kg/bw/day for teratogenicity was reported in mice [INCHEM]

Section 12: Environmental Information

Effects for individual ingredient only

AQUATIC	Ivermectin: 96-hr LC50 0.0032mg/L (rainbow trout) [EXTOXNET]
TERRESTRIAL VERTEBRATES	Ivermectin: LD50 11.6 mg/kg (male mouse) [INCHEM]
TERRESTRIAL INVERTEBRATES	Ivermectin: LC50 0.002 µg/bee [EXTOXNET]
ENVIRONMENTAL FATE AND EFFECTS	Ivermectin photodegrades rapidly in the environment and is metabolized in the soil. Water solubility is limited and it binds to soil very tightly. It does not bioconcentrate in fish and is not taken up from soil to plants. Both aquatic and terrestrial studies confirm rapid degradation of Ivermectin in the environment and lack of accumulation and persistence.
EEL	No EEL is set for this substance at this time.

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

Section 14: Transport Information

Relevant information	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ivermectin) 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: HSR001903. For a full listing of controls see www.ermanz.govt.nz ACVM registration number: A9950. 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
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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).