

Halocur[®]

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Section 1: Identification of the Substance and Supplier

Product name	Halocur Liquid containing halofuginone
Recommended use	Oral veterinary medicine for calves to prevent or treat scours.
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	6.4A, 6.5B, 6.9B, 9.1C
Priority identifiers	Warning
Secondary identifier	6.4A May cause eye irritation 6.5B May cause an allergic skin reaction 6.9B May cause liver and kidney damage through prolonged or repeated oral exposure at high doses. 9.1C Harmful to aquatic life with long lasting effects

Risk & Safety Phrases

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Halofuginone base (as lactate salt)	82186-71-8	0.05%

Section 4: First Aid Measures**Necessary first aid measures**

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.

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.

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Required instructions	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
Notes for medical personnel	
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 (CO ₂), extinguishing powder or water spray
Hazchem code	None allocated
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.
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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 required where quantities greater than 1000L are present. Emergency Plan required where quantities greater than 1000L 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	See below
Store site requirements	Store below 30°C (room temperature). Do not store for prolonged periods in direct sunlight.
Packaging	Schedule 4

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Section 8: Exposure Control/Personal Protection

Workplace exposure standards	No WES is set for this substance at this time.
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 The Acceptable Daily Exposure (ADE) of 0.0003mg/kg bw/day (halofuginone lactate).
Personal protection	Wear chemical resistant gloves, facemask or goggles.

Section 9: Physical and Chemical Properties

Appearance	Canary yellow homogenous liquid
Boiling Point	~ 100°C at 100kPa
Melting/Softening point	Not applicable
Vapour Pressure	Ps (100°C) $\leq 4.10^{-10}$ mmHG (active)
Specific Gravity	Not available
Solubility (H ₂ O)	Slightly 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	Avoid high temperatures and sunlight.
Material to avoid	Avoid food products
Hazardous decomposition products	Carbon oxides (COx), Sulphur oxides (SOx), and Nitrogen oxides (NOx).

Section 11: Toxicological Information

Acute effects for individual ingredients only

ORAL	Halofuginone: LD50 4.4mg/kg (mouse)
TEL	No TEL is set for this substance at this time.

Chronic/long term effects for individual ingredients only

Halocur[®]**Section 12: Environmental Information****Effects for individual ingredients only.**

AQUATIC	Halofuginone: Blue sunfish LC50 (96hr) 0.012mg/L
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 the environment with product or empty container. Container Disposal Triple rinse empty container, crush/puncture and bury in an approved landfill.
Reference	Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information	Not classified as a dangerous good for transport
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Section 15: Regulatory Information

Regulatory status	HSNO Approval Code: HSR007921. For a full listing of controls see www.ermanz.govt.nz ACVM registration number: A009802. For conditions of registration see www.nzfsa.govt.nz/acvm Prescription Animal Remedy (P.A.R) Class I For use only under the authority or prescription of a veterinarian.
HSNO and ACVM controls	Signage: 1000 Litres Emergency Plan: 1000 Litres

Section 16: Other Information

Additional information	Halocur is a registered trademark of Intervet International B.V.
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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).