

SAFETY DATA SHEET

Halocur[®]

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	MSD Animal Health, 33 Whakatiki Street, Upper Hutt Phone: 0800 800 543 Fax: 0800 808 100 Website: www.msd-animal-health.co.nz Hours: 8 am – 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	September 2011

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 repeated oral exposure at high doses. 9.1C Harmful to aquatic organisms with long lasting effects

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	<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> <p>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.</p>
Required instructions	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

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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	Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Keep container sealed when not in use. Keep out of reach of children.
Store site requirements	Store below 30°C (room temperature). Do not store for prolonged periods in direct sunlight.
Packaging	Schedule 4 (limited quantities)

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) $\leq 4 \cdot 10^{-10}$ mmHG (active)
Specific Gravity	Not available
Solubility (H ₂ O)	Miscible
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

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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 unused contents in a suitable landfill. Avoid contamination of any water source or the environment with product or empty container. Container Disposal Dispose of empty container by puncturing and burying in a suitable landfill, or recycle.
Reference	Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information Not classified as a dangerous good for transport

Section 15: Regulatory Information

Regulatory status HSNO Approval Code: HSR007921.
For a full listing of controls see www.epa.govt.nz

ACVM registration number: A009802.
For conditions of registration see www.foodsafety.govt.nz

RESTRICTED VETERINARY MEDICINE

HSNO and ACVM controls **Signage:** 1000 Litres
Emergency Plan: 1000 Litres

Section 16: Other Information

Additional information Halocur is a registered trademark.

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