

SAFETY DATA SHEET

Engemycin[®]

Section 1: Identification of the Substance and Supplier

Product name	Engemycin Liquid containing 8-23% oxytetracycline hydrochloride
Recommended use	Veterinary broad-spectrum antibiotic injection for use in horses, cattle, sheep, pigs, dogs and cats.
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	6.3A, 6.4A, 6.5B, 6.8B, 6.9B, 9.1B
Priority identifiers	WARNING Ecotoxic
Secondary identifier	6.3A May cause skin irritation 6.4A May cause eye irritation 6.5B May cause an allergic skin reaction 6.8B Suspected of damaging fertility or the unborn child from repeated oral exposure 6.9B May cause damage to the gastrointestinal tract through prolonged or repeated inhalation or dermal exposure at high doses. 9.1B Toxic to aquatic organisms with long lasting effects
Risk & Safety Phrases	R63 Possible risk of harm to the unborn child R51 Toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Oxytetracycline hydrochloride	2058-46-0	10%
Sodium formaldehyde sulfoxylate	6035-47-8	<1%
Ethanolamine	141-43-5	2%

Section 4: First Aid Measures

Necessary first aid measures	ACCIDENTAL SELF-INJECTION Wash and disinfect self injection injuries. Seek medical advice if irritancy or an allergic response occurs – show this SDS. 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
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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.

Required instructions	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
Notes for medical personnel	Accidental self-injection: Treat symptomatically. Some risk of hypersensitivity from injection. Contamination of the needle must be considered. Treat symptomatically any allergic reaction to tetracycline or any local irritancy caused by ethanalamine.
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	3Z (Contain spillage)
Recommended protective clothing	Wear full protective clothing and self-contained breathing apparatus (SCBA).

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 protected from light at room temperature (8-30°C). Do not refrigerate or freeze.
Packaging	PG III

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	Ethanolamine TWA 3.0ppm (7.5mg/m ³) (OSH NZ)
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.

Section 9: Physical and Chemical Properties

Appearance	Clear green to yellow solution
Boiling Point	Not determined
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	1.099
Solubility (H ₂ O)	Miscible
Percent Volatiles	Not determined
Evaporation Rate	Not determined

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Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	Avoid high temperatures.
Material to avoid	Avoid food products.
Hazardous decomposition products	May also evolve nitrogen oxides, sulphur oxides and carbon oxides when heated to decomposition.

Section 11: Toxicological Information

Acute effects for individual ingredients only

ORAL	Ethanolamine LD50: 620mg/kg (guinea pig) Oxytetracycline Hydrochloride LD50: 6696 mg/kg (mouse) Sodium Formaldehyde Sulphoxylate LD50 4000mg/kg (mouse)
DERMAL	Ethanolamine LD50: 1mL/kg (rabbit)
TEL	No TEL is set for this substance at this time.

Chronic/long term effects for individual ingredients only

Section 12: Environmental Information

Effects for individual ingredients only.

AQUATIC	Oxytetracycline Hydrochloride: 0.207mg/L EC50 96hr (Microcystis aeruginosa) [ERMA]
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.
Reference	Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxytetracycline hydrochloride) Marine Pollutant Class 9 PG III Limited quantities: 5L Maximum quantity for own agricultural use: 1000L
Other requirements	Refer to Haznote.

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Section 15: Regulatory Information

Regulatory status	HSNO Approval Code: HSR002217. For a full listing of controls see www.epa.govt.nz ACVM registration number: A003308. 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	Engemycin is a registered trademark.
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