

Nafpenzal[®] Milking Cow

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Section 1: Identification of the Substance and Supplier

Product name	Nafpenzal Milking Cow Liquid containing 6-8% benzylpenicillin sodium, 4-6% dihydrostreptomycin sulphate and 4-6% nafcillin sodium
Recommended use	Veterinary antibiotic for treatment of bovine mastitis in milking cows.
Company details	Intervet Limited 12 Shakespeare Ave, Upper Hutt Phone: 0800 447 838, Fax 0800 424 838 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	January 2009

Section 2: Hazards Identification

Hazard classifications	6.3A, 6.4A, 6.5B, 6.8A, 6.9B, 9.1A
Priority identifiers	Danger Ecotoxic
Secondary identifier	6.3A May cause skin irritation 6.4A May cause eye irritation 6.5B May cause an allergic skin reaction 6.8A May damage fertility or the unborn child from repeated oral exposure 6.9B May cause organ damage from repeated oral exposure at high doses 9.1A Very toxic to aquatic life with long lasting effects
Risk & Safety Phrases	R63 Possible risk of harm to the unborn child R50 Very toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Sodium benzylpenicillin	69-57-8	6%
Dihydrostreptomycin sulphate	5490-27-7	4.5%
Nafcillin sodium (monohydrate)	7177-50-6	4.1%

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Section 4: First Aid Measures

Necessary first aid measures

Penicillins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations. Handle this product with great care to avoid exposure.

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.

Required instructions

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

Notes for medical personnel

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 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 with sand or similar 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. Penicillins may cause hypersensitivity (allergy) following injection, inhalation, ingestion or skin contact. Do not handle this product if you know you are sensitised, or if you have been advised not to work with such preparations. Handle this product with great care to avoid exposure.
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	See below.
Store site requirements	Store in a cool place (6-15°C).
Packaging	PG III

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 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	White to off-white ointment
Boiling Point	Not determined
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	Not available
Solubility (H ₂ O)	Not available
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	Carbon oxides (CO _x), Sulphur oxides (SO _x), and Nitrogen oxides (NO _x) may evolve if heated to decomposition.

Section 11: Toxicological Information

Acute effects for individual ingredients only

ORAL	Dihydrostreptomycin has been reported to be more likely to cause partial or complete hearing loss than streptomycin and is therefore not recommend for use in humans.
TEL	No TEL is set for this substance at this time.

Chronic/long term effects for individual ingredients only

Streptomycin: Observations in humans: In a published review of antituberculosis therapy during pregnancy, Scheinhorn and Angelillo (1977) Evaluation of the children born to these mothers showed 16 with loss of high-frequency hearing, eight with vestibular defects, and one with clinical disability. Since organogenesis of the inner ear occurs during the seventh intrauterine week and differentiation of the cochlear cells continues up to mid-gestation, the authors recommend avoidance of the use of streptomycin during this period. Dihydrostreptomycin and streptomycin (WHO Food Additives Series 39)

Section 12: Environmental Information

Effects for individual ingredients only.

AQUATIC	Dihydrostreptomycin sulphate: Selenastrum capricornutum 72hr EC50 0.133mg/L Penicillin: 96Hr EC50 0.006mg/l (algae) [ERMANZ]
TERRESTRIAL VERTEBRATES	Dihydrostreptomycin sulphate: LD50 =400mg/kg male mice.
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 Bury in an approved landfill or other approved facility.</p>
Reference	Current version of NZS 8409 Management of Agrichemicals

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Section 14: Transport Information

Relevant information	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium benzylpenicillin & Dihydrostreptomycin sulphate) 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: HSR002093. For a full listing of controls see www.ermanz.govt.nz ACVM registration number: A003159. 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: 100 Litres Emergency Plan: 100 Litres

Section 16: Other Information

Additional information	Nafpenzal is a registered trademark of Intervet International B.V.
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Intervet/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, Intervet 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).