

SAFETY DATA SHEET


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Section 1: Identification of the Substance and Supplier

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name | Closal |
| Recommended use | An oral anthelmintic for sheep. |
| Company details | Schering-Plough Animal Health Limited 33 Whakatiki Street, Upper Hutt 5018, New Zealand Phone: 0800 800 543 Fax: 0800 808 100 www.coopersonline.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 | April 2019 |

Section 2: Hazards Identification

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|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard classifications | 6.5B: Contact sensitiser 6.6B: Mutagen 6.8A: Reproductive/developmental toxicant 6.9B: Target organ systemic toxicant 9.1C: Aquatic ecotoxicant |
| GHS Pictogram: |  |
| Signal word | Danger |
| Hazard statement | H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects. H360: May damage fertility or the unborn child. H373: May cause damage to the liver, nervous, cardiovascular, blood and the haematopoietic systems through prolonged or repeated oral exposure. H412 Harmful to aquatic life with long lasting effects. |
| Prevention statement | P102: Keep out of the reach of children. P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing mist. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves. P281: Use personal protective equipment as required. |
| Response statement | P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P313: IF exposed or concerned: Get medical advice/ attention. P314: Get medical advice/attention if you feel unwell. P321: See first aid instruction on the label of the product. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse. |
| Storage | P405: Store locked up. |

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Disposal P501: Dispose of product, packaging and waste at an approved landfill or other approved facility.

Section 3: Composition/Information on Ingredients

| Chemical name | CAS number | Concentration |
|--------------------|------------|---------------|
| Cloxacillin sodium | 57808-65-8 | 3.87% |
| Albendazole | 54965-21-8 | 1.9% |
| Propylene Glycol | 57-55-6 | 20-30% |

Section 4: First Aid Measures

Necessary first aid measures 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.

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 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.

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

Notes for medical personnel **Inhalation:** remove to fresh air & provide oxygen if breathing is difficult.

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 Water, carbon dioxide (CO₂), foam, or dry chemical.

Hazchem code Not applicable

Recommended protective clothing Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

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|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| Environmental Precautions | Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment. |
| 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. |

Section 7: Handling and Storage

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|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 1000 L are present. Emergency Plan required where quantities greater than 1000 L are present. |
| Handling practices | Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use. |
| Certified 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. |
| Store site requirements | Store in a cool, dry, well ventilated area. |
| Packaging | PG III |

Section 8: Exposure Control/Personal Protection

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|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits | Propylene glycol: TWA 150ppm 474 mg/m ³ |
| Application in the workplace | Ensure adequate ventilation. Keep container sealed when not in use. |
| Exposure standards outside the workplace | No TEL or EEL are set for this substance at this time |
| Personal protection | Wear chemical resistant gloves, facemask or goggles. |
| 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 |

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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.

Section 9: Physical and Chemical Properties

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|-------------------------------|--------------------------------------|
| Appearance | Off white suspension with mild odour |
| Boiling Point | Not determined |
| Melting/Softening point | Not applicable |
| Vapour Pressure | 100kPa |
| Specific Gravity | 1.035 - 1.051 @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 | Avoid high temperatures |
| Material to avoid | Strong acids and bases. Oxidisers. |
| Hazardous decomposition products | Carbon oxides (CO _x) |

Section 11: Toxicological Information**Acute effects for individual ingredients only**

| | |
|------|-----------------------------------------------------------------------------------------------------|
| ORAL | Albendazole: LD50 500 mg/kg bw (rabbit) [WHO] Closantel sodium: 24-hr LC50 2.5 mg/L (common eel) |
| TEL | No TEL is set for this substance at this time. |

Chronic/long term effects for individual ingredients only

Albendazole: NOEL 5mg/kg/bw/day oral (rats/rabbits) tetrogene (666. Albendazole (WHO) [INCHEM]

Closantel Sodium; Adverse effects on reproduction were probably associated with toxicity to the male reproductive organs, and were seen only at doses of 2.5 mg/kg body weight per day and above. In a fertility study in rats, in which closantel was administered in the diet, there was a reduced pregnancy rate in untreated females paired with males receiving the highest dose of 40 mg per kg of body weight per day. (Closantel – WHO)

Closantel Sodium: NOAEL 2.5 mg/kg/bw/day (rat) for Hepatotoxicity/ Alimentary system (liver) toxicity [WHO]

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Section 12: Environmental Information

Effects for individual ingredients only

| | |
|---------|----------------------------------------------------|
| AQUATIC | Closantel sodium: 24-hr LC50 2.5 mg/L (common eel) |
| 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. Where possible, dispose of unused product through AgRecovery Chemicals. 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. Where possible, recycle through AgRecovery. Do NOT burn.

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: HSR001886
For a full listing of controls see www.epa.govt.nz

ACVM Registration No: A005093
For conditions of registration see www.foodsafety.govt.nz

Section 16: Other Information

Additional information

Closal is a registered trademark.

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).