

SAFETY DATA SHEET

SMARTShot B₁₂ plus Se

Section 1: Identification of the Substance and Supplier

Item	Description
Product names	SMARTShot B ₁₂ plus Se
Recommended use	For the treatment and prevention of cobalt deficiency and selenium deficiency in sheep and cattle.
Company details	Prescription Animal Remedy (P.A.R) Class I. For use only under the authority or prescription of a veterinarian. Distributed by Stockguard Animal Health Ltd.
Address	26-30 Maui St, Pukete Park, Hamilton.
Phone number	07 849 6782
Emergency telephone number	During business hours: 07 849 6782 Outside business hours, call National Poisons Centre on 0800 764 766.
Date of preparation	27 th March 2007

Section 2: Hazards Identification

Item	Description
Hazard classifications	Class 6 Toxic: - 6.6B Suspected human mutagen. 6.9B Target organ systemic toxicant. Class 9 Ecotoxic: - 9.1B Ecotoxic in the aquatic environment. 9.2B Ecotoxic in the soil environment.
Health hazards	May be harmful if swallowed, inhaled or absorbed through the skin. May cause damage to the eyes. Avoid contact with the eyes. May sensitise on prolonged or repeated skin contact, leading to allergic reactions.

Section 3: Composition / Information on Ingredients

Chemical identity of Hazardous Ingredients	CAS no.	Content (% w/v)
Barium selenate	7787-41-9	4.26%

Section 4: First Aid Measures

Item	Description
Symptoms of acute overexposure	On contact - skin rash, watery eyes, shortness of breath, coughing & wheezing &/or nasal congestion may occur. Ingestion may lead to moderate gastro-intestinal discomfort. For allergic individuals the symptoms are more severe, especially skin reactions, & immediate medical assistance is recommended.
Symptoms of chronic overexposure	Acute Selenium poisoning is unlikely with Barium selenate but symptoms are irritation of the nasal, respiratory and gastro-intestinal tracts, persistent garlic odour on the breath, metallic taste in the mouth, pallor, irritability, excessive fatigue. Damage to the spleen, liver and bone marrow may also occur.
First Aid: If swallowed	Contact doctor or National Poisons Centre (0800 764 766). DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water & give plenty of water to drink. For significant quantities, lean patient forward or place on left side (head down, if possible) to maintain open airway & prevent aspiration & refer for medical attention without delay. Provide a copy of this document to the practitioner.
Eye contact	Immediately hold eyes open & wash continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart & away from eye & moving the eyelids by occasionally lifting the upper & lower lids. If discomfort persists, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact	Immediately flush body & clothes with large quantities of water. Quickly remove all contaminated clothing & footwear. Wash affected areas with water (& soap if available) for at least 15 minutes. Obtain medical attention if irritation develops. Wash clothing before re-use.
Inhaled	Remove to fresh air. Lay patient down. Keep warm & rested & observe for any signs of an allergic reaction. If breathing is difficult, obtain medical attention.
Advice to doctor	Treat symptomatically. Treat as for an actual or potential allergen.

Section 5: Fire Fighting Measures

Type of hazard	No unusual hazards associated with fire or explosions are known.
Fire hazard properties	May emit toxic fumes when exposed to fire or heat. Flash point: not known. Ignition temperature: not known.
Special fire fighting precautions	Wear self-contained breathing apparatus.
Extinguish with	Water, carbon dioxide, foam or powder.

Section 6: Accidental Release and Disposal Measures

Item	Description
Personal precautions	Emergency procedures: Ensure suitable protective clothing is worn. For small volumes, chemical-resistant gloves & goggles will suffice. For large volumes, protective boots & overalls should also be worn.
Environmental precautions	Spilled product & washings must be prevented from entering any drains or waterways, or from contaminating the ground.
Procedure for a spill	Keep all bystanders away. Wear appropriate protective gear. Re-position any leaking containers to minimise any further leakage. Dam & absorb spill with an absorbent material (sand or soil). Shovel the absorbed material into a drum or similar robust container. Dispose of in an approved landfill. Decontaminate the spill area with detergent & water & rinse with the smallest volume of water possible.

Section 7: Handling and Storage
ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS AND WARNINGS

Handling	Store in original container, tightly closed, away from foodstuffs. Do not eat, drink or smoke while using. When handling wear chemical-resistant gloves, goggles, overalls and shoes. Avoid contact with skin & eyes. Remove protective clothing and wash hands and face thoroughly before meals and after using this product. Avoid self-inoculation.
Storage	Keep out of reach of children. Store in original container, tightly closed, away from foodstuffs. Store upright in a cool place. Do not freeze. Protect from light.

Section 8: Physical and Chemical Properties

Item	Description
Appearance	Clear, oily suspension of white or off-white powder.
Odour	Odourless.
Flash point	Not known.
Ignition temperature	Not known.
Flammability	Not flammable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Combustibility	The oil in this product will burn.
Corrosiveness	Not corrosive.
Specific gravity	0.9469
pH	Not applicable.
Solubility	Not soluble in water.

Section 9: Stability and Reactivity

Item	Description
Stability	Stable under recommended storage conditions.
Conditions to avoid	Temperatures exceeding 30 ⁰ C or less than 2 ⁰ C.
Materials to avoid	Solvents which may degrade the container.
Hazardous decomposition products	On heating to decomposition, emits toxic fumes.
Hazardous polymerisation	Does not occur.

Section 10: Toxicological Information - The information below applies to SMARTShot B₁₂ plus Se

Acute toxicity (LD50)	Rat, oral: >2000 mg/kg.
Chronic toxicity	Not known.
Mutagenicity	Barium selenate is a suspected mutagen.

Section 11: Environmental Information

Item	Description
Aquatic environment	Ecotoxic in the aquatic environment with possible long lasting effects owing to the low solubility and stability of barium selenate (persists for extended periods).
Soil environment	Ecotoxic in the soil environment with possible long lasting effects owing to the low solubility and stability of barium selenate (persists for extended periods).

Section 12: Disposal Considerations

Item	Description
Procedure for product disposal	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Procedure for container disposal	Ensure container is completely empty. If permitted under Local Authority Plans burn if circumstances, especially wind direction, permit otherwise crush & bury in an approved Local Authority facility. DO NOT use the container for any other purpose.

Section 13: Transport Information

Under the HSNO Control EM1, the transport of quantities of this product in excess of 1L must comply with Land Transport Rule 45001 & Maritime Rule 24A in terms of labelling & documentation. Transport of any quantity by air must comply with Civil Aviation Rule 92.

Section 14: Regulatory Information

Item	Description
HSNO approval code	HSR002376
HSNO controls	Toxic: T2, T4, T5. Identification: I1, I3, 18,19, I11,116, 117, 118, 119, I20, 121, 123, 128, 129, I30. Packaging: P1, P3, PS4. Disposal: D4, D5, D6, D7, D8 Emergency management: EM1, EM8, EM11, EM12, EM13
Approved handlers	Not required.
ACVM registration	Registered pursuant to the ACVM Act 1997, A9402
ACVM controls	See www.nzfsa.govt.nz/acvm/ for registration conditions.