

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Selpor
Product code:	A007040
Recommended use:	Topical treatment for the prevention and treatment of selenium deficiency and selenium responsive disorders in cattle and deer.
Company details:	Boehringer Ingelheim Animal Health New Zealand Limited
Address:	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
Date of preparation:	20 April 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Clear Liquid	
Product components:		
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Sodium selenate (Selenium)	13410-01-0	12.4 g/L (5g/L)
Diethylene glycol monobutyl ether	112-34-5	300 g/L
Other		To 1 g/L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1D, 6.3B, 6.4A, 6.6B, 6.9B, 9.1C, 9.3C
Priority and secondary identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment
Risk and safety phrases:	May be harmful if swallowed. Wash hands and exposed skin before meals and after use. May cause mild skin irritation. Avoid skin contact. May cause eye irritation. Avoid contact with the eyes. Sodium selenate possibly may cause damage to genetic material. Handle with care. Sodium selenate possibly may affect the liver and alimentary system. The solvent, The solvent, diethylene glycol monobutyl ether, possibly may affect the kidney (oral) and liver (inhaled). Handle with care. Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to terrestrial vertebrates. Avoid release to the environment.

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately. INGESTION: If swallowed seek medical attention. Do NOT induce vomiting. EYES: If splashed in eyes wash out immediately and thoroughly with water. SKIN: If skin or hair contact occurs remove contaminated clothing
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Workplace facilities:	and flush skin and hair with running water.
Required instructions:	INHALATION: Remove to fresh air. No special facilities required.
Notes for medical personnel:	Observe good work practices and avoid skin and eye contact. Wash hands and exposed skin before meals and after use. Do not eat or drink while using. Launder protective clothing separately from other clothing, and before each reuse. Apply symptomatic therapy (no specific antidote). Note the nature of the product.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non flammable, Non combustible, Non explosive
Fire hazard properties:	Selpor is not classified as flammable, and will not support combustion. Hazardous fumes when heated to decomposition.
Regulatory requirements:	Not applicable
Extinguishing media and methods:	Treat the fire as for the other materials present. Do not allow water to enter drains.
Hazchem code:	N/A
Recommended protective clothing:	When fighting a major fire wear full protective clothing including breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Wear suitable protective clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Avoid contamination of water courses or sewers. Dispose of waste safely.
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Apply with well-maintained and calibrated equipment. Handle with care.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required
Conditions for safe storage:	Store below 30°C away from light. Keep out of reach of children.
Store site requirements:	This substance is subject to a requirement for an emergency management plan, containment and signage, whenever it is held in quantities of 1000L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
Packaging:	Packaging Schedule 4 (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	Diethylene glycol monobutyl ether, NZ Not set DFGMAK TWA 100 mg/m ³ Selenium compounds, as Se TWA 0.1mg/m ³ Dusts 10mg/m ³
Application in the workplace:	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.

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Exposure standards outside the workplace:	TELs and EELs are not set at this time.
Engineering controls:	Ensure that ventilation maintains dust levels below WES.
Personal protection:	Clothing should consist of overalls with long sleeves, including eye protection (eg. Goggles or face shield).
References:	N/A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Clear Liquid <u>Solubility in water:</u> insoluble in water <u>Specific gravity:</u> ~ 1g/mL <u>pH:</u> 3.0 – 8.5 <u>Boiling point:</u> > 100°C
Required specifications:	N/A
Further specifications:	N/A
Specific advice:	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable under normal conditions of use and storage.
Conditions to avoid:	No specific conditions to avoid.
Material to avoid:	No specific materials to avoid.
Hazardous decomposition products:	No hazardous products are expected, except when heated to decomposition.
Hazardous polymerization:	Components are not expected to form hazardous polymers.
Specific data:	N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	May be harmful if swallowed. May cause mild skin irritation. May cause eye irritation. Danger of serious damage to health by prolonged exposure if swallowed or inhaled. Sodium selenate possibly may cause damage to genetic material. Sodium selenate possibly may affect the liver and alimentary system.
Effects of Acute Exposure:	The solvent, diethylene glycol monobutyl ether, possibly may affect the kidney (oral) and liver (inhaled). <u>Sodium selenate:</u> Sodium selenate is acutely toxic [LD ₅₀ (oral) 25mg/kg]. Dusts are toxic if inhaled and irritant to eyes. Acute poisoning exhibits as dyspnea, spasms and death from respiratory failure. Selenium poisoning in humans has been described and gastrointestinal and neurological symptoms predominated. Potential mutagen. Repeated oral dose testing in laboratory species identified a lowest NOAEL of 0.37mg/kg/day (liver toxicity). <u>Diethylene glycol monobutyl ether:</u> Low to moderate acute toxicity in laboratory species [LD ₅₀ (oral) 2000-9600mg/kg; LD ₅₀ (dermal) 2700mg/kg]. Repeated oral dose study in rats reported nephrotoxicity (oral LOAEL 51mg/kg/d). Chronic inhalation study in rats reported hepatotoxicity (inhalation NOAEL 0.04mg/L/d). Slightly irritating to skin and irritating to eyes.

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SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:	Harmful to aquatic organisms. Harmful to terrestrial vertebrates. Avoid release to the environment.
Data organisation :	<u>Sodium selenate</u> : Very toxic to fish [LC ₅₀ (96hr, Flathead minnow) 690ug/L], to crustacea [LC ₅₀ (48hr, <i>Grammarus pseudolimnaeus</i>) 83ug/L] and algae [EC ₅₀ (96hr, green algae) 0.2mg/L]. Toxic to plants [EC20 (22d) 0.1mg/kg soil]. Toxic to terrestrial invertebrates based on an acute oral LD ₅₀ (rats) of 25 mg/kg. Selenium is bioaccumulative and persists.
Environmental risk and safety phrases:	Harmful to the soil environment. Harmful to terrestrial vertebrates. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :	Product Disposal: To avoid disposal all attempts should be made to utilise the product completely in accordance with its registered use. Prevent the product from entering natural water sources. Container Disposal: Burn empty container in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill.. Do NOT use container for any other use.
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SECTION 14: TRANSPORT INFORMATION

Relevant information:	Not classified as dangerous for rail, road, air or sea transport. The maximum quantity per package of this substance allowed for carriage on public transport is 1L.
Other requirements:	N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No. A007040. See www.foodsafety.govt.nz for registration conditions. Approved pursuant to the HSNO Act, Approval Code HSR002382 See www.epa.govt.nz for approval conditions
HSNO and ACVM controls:	SDS is required for quantities greater than or equal to 1L Refer to Section 3
List exposure limits:	N/A

SECTION 16: OTHER INFORMATION

Additional information:	For product information visit the Boehringer Ingelheim website www.boehringer-ingelheim.co.nz While the information set forth is believed to be accurate as of the date hereof, BOEHRINGER INGELHEIM makes no warranty with respect hereto and disclaims all liability from reliance thereon.
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