

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	Oxfen C Hi Mineral
Product code:	A6167
Recommended use:	Anthelmintic drench for the control of sensitive mature and immature <i>Haemonchus</i> , <i>Ostertagia</i> , <i>Trichostrongylus</i> , <i>Nematodirus</i> , <i>Cooperia</i> , <i>Strongyloides</i> , <i>Bunostomum</i> , <i>Oesophagostomum</i> , <i>Chabertia</i> , <i>Trichuris</i> , <i>Dictyocaulus</i> and <i>Moniezia</i> in cattle and deer, and type II <i>Ostertagia</i> in cattle
Company details:	Merial Ancare
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Merial Ancare Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
Date of preparation:	4 April 2006

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Blue to green suspension liquid	
Product components:		
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Oxfendazole	53716-50-0	90.6 g/L
Sodium selenate	13410-01-0	4.8 (2 g/L Selenium)
Copper versenate	14025-15-1	69.0 (9.7 g/L Copper)
Other		

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1E, 6.3B, 6.4A, 6.5B, 6.8B, 6.9B, 9.1B, 9.2C
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. Handle with care. May cause mild skin irritation. Avoid skin contact. May cause eye irritation. Avoid contact with eyes. Repeated exposure may cause skin allergy. Avoid skin contact. Oxfendazole possibly may affect development and/or reproduction. Handle with care. Oxfendazole possibly may affect the liver and alimentary system. Copper possibly may affect the kidney. Handle with care. Toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment. 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.
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SAFETY DATA SHEET

Product Name: Oxfen C Hi Mineral

Page 2 of 5
Reviewed on: 30th October 2008

Workplace facilities:	EYES: If splashed in eyes wash out immediately and thoroughly with water.
Required instructions:	SKIN: If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.
	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 (possible reproductive/developmental toxin, irritant and sensitiser).

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	Non flammable, Non combustibile, Non explosive
Fire hazard properties:	Oxfen C Hi Mineral 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:	2X
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 in a cool place with top secured. 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 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

SAFETY DATA SHEET

Product Name: Oxfen C Hi Mineral

Page 3 of 5
Reviewed on: 30th October 2008

Workplace exposure standards:	Selenium compounds, as Se TWA 0.1mg/m ³ Copper fume TWA 0.2mg/m ³ Copper dusts & mists, as Cu TWA 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.
Exposure standards outside the workplace:	EEL: Copper (Cu ²⁺) 0.0013mg/L water
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) and impervious gloves.
References:	N/A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Blue to green suspension liquid <u>Solubility in water:</u> insoluble in water <u>Specific gravity:</u> ~ 1g/mL <u>Boiling point:</u> ca. 100 ^o 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. Repeated exposure may cause skin allergy. Danger of serious damage to health by prolonged exposure if swallowed. Ox fendazole possibly may affect development and/or reproduction. Ox fendazole possibly may affect the liver and alimentary system. Copper possibly may affect the kidney
Effects of Acute Exposure:	<u>Ox fendazole:</u> Ox fendazole has low acute oral toxicity [LD ₅₀ (oral) > 6400mg/kg]. In repeated oral dose studies hepatocellular lipid vacuolation was identified as an early toxic effect (lowest NOEL was 0.7 mg/kg/day). Teratogenicity and foetal toxicity has been demonstrated in laboratory animal studies (lowest NOEL was 0.9mg/kg/day). <u>Copper versenate:</u> Low to moderate acute toxicity. Copper may induce allergic contact dermatitis in susceptible individuals and is eye and skin irritant. Repeated oral dose chronic studies reported reduced growth rates, liver and kidney effects and microcytic anaemic in laboratory species. <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

SAFETY DATA SHEET

Product Name: Oxfen C Hi Mineral

Page 4 of 5
Reviewed on: 30th October 2008

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).

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:

Toxic to aquatic organisms. Harmful to the soil environment.

Data organisation :

Oxfendazole: Benzimidazoles are not toxic to birds or honey bees, but are moderately toxic to aquatic life [Oxfendazole: LC₅₀ *Daphnia magna* 0.52mg/L (48hrs)] . The potential for bioaccumulation is low and benzimidazoles are degraded in soil and probably also in water.
Copper versenate: Toxic to aquatic species (no data, 9.1D).
Sodium selenate: Very toxic to fish [LC₅₀ (96hr, Flathead minnow) 690ug/L], to crustacea [LC₅₀ (48hr, *Grammarus pseudolimnaeus*) 83ug/L] and algae [EC₅₀ (96hr, green algae) 0.2mg/L]. Toxic to plants [EC20 (22d) 0.1mg/kg soil]. Toxic to terrestrial vertebrates based on an acute oral LD₅₀(rats) of 25 mg/kg. Selenium is bioaccumulative and persists.

Environmental risk and safety phrases:

Toxic to aquatic organisms. Harmful to the soil environment.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Oxfendazole 9%)

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.

SECTION 14: TRANSPORT INFORMATION

Relevant information:

Dangerous Goods for transport
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Oxfendazole 9%)
UN Number: 3082
Dangerous Goods Class: 9

Other requirements:

The maximum quantity per package of this substance allowed for carriage on public transport is 0.1L.
N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A6167. See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act, Approval Code HSR001907
See www.ermanz.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

SAFETY DATA SHEET

Product Name: Oxfen C Hi Mineral

Page 5 of 5
Reviewed on: 30th October 2008

Additional information:

For product information visit the Merial website www.merial.co.nz

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