



Material Safety Data Sheet

Product Name: **SOVEREIGN**

Classified as Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company Name SCHERING-PLOUGH PTY LTD
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Other Information

IDENTIFICATION

Product Name SOVEREIGN

Shipping Name (CSN) N/A

Other Names

<u>Name</u>	<u>Mancode</u>
Coopers SOVEREIGN Cattle Pour-On	134

UN Number N/A
DG Class N/A
Sub. Risk N/A
Packing Group N/A
Hazchem Code N/A
Poisons Schedule S6

Product Use A micelle pour-on formulation for the simultaneous treatment of nematodes and liver fluke of cattle.

Physical Data

Appearance A clear, blue, free flowing solution.
Boiling Point > 100°C
Vapour Pressure N/A
Specific Gravity 1.08 – 1.105 at 20°C
Flash Point >61°C
Flamm. Limit LEL LEL – Not applicable UEL – Not applicable
Vapour Density (Air) N/A
Volatile Volume (%) Non-volatile

Other Properties

Form Solution
Other Information Solubility in water (g/L): Miscible in ratio 2.5 parts product: 1 part water

Ingredients

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Ivermectin	70288-86-7	1.5%
	Triclabendazole	68786-66-3	24.0%
	Glycol ether	112-34-5	40 – 50 %



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HEALTH HAZARD INFORMATION

Health Effects

- Acute - Ingestion** If accidentally ingested seek immediate medical attention. Pure Ivermectin is considered highly toxic in acute animal studies. The acute oral toxicity studies of Ivermectin have shown clear difference among species in sensitivity to Ivermectin toxicity. Rodents are uniquely sensitive compared to other species in which the compound has been tested. It is therefore in-appropriate to base human risk assessment on the response in mice. Ivermectin is used at a therapeutic dose of 200 µg/Kg in a variety of species including human.
Symptoms of exposure to Ivermectin may include decrease activity, slow rate of breathing, dilation of pupils, muscle tremors and incoordination. Swallowing of solvents may cause gastrointestinal tract irritation.
- Acute - Eye** Irritating to the eyes. Direct contact can cause contraction of the pupils leading to blurred vision.
- Acute - Skin** Ivermectin and Triclabendazole have been found to be non-irritating in animal studies. Skin irritation and degreasing, leading to irritant contact dermatitis, may occur from repeated or prolonged solvent contact.
- Acute - Inhalation** No toxicity to Ivermectin or Triclabendazole has been observed by this route of exposure. Solvents may cause respiratory irritation.
- Chronic** When this product is used according to the directions, prolonged exposure of man is not expected. None of the compounds have been identified as carcinogens by IARC. Ivermectin has been shown to be a reproductive toxin only at doses which are toxic to the maternal animal and has tested negative in several mutagenicity tests.

First Aid

If poisoning occurs contact a doctor or Poisons Information Centre (Phone 113126).

- Ingestion** Thoroughly rinse mouth with water. If poisoning occurs contact a doctor or Poisons Information Centre (Phone 113126). Do not make an unconscious person vomit. If vomiting occurs, place victim face downward, head lower than hips, to prevent aspiration of material into the lungs.
- Eye** Irrigate gently with copious quantities of water for 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek immediate medical attention.
- Skin** Remove ALL contaminated clothing and wash skin thoroughly with soap and water. If swelling, redness, blistering or irritation occurs, seek medical advice.
- Inhalation** Remove victim from further exposure. Remove contaminated clothing and loosen remaining clothing. If any signs or symptoms occur or persist seek medical advice. If use results in vapour/mist concentrations above the TLV/PEL, an Australian Standards approved respirator for vapour/mists is recommended.
- Other Information** A first aid kit should be readily available, with eye bath.

Advice to Doctor

- Advice to Doctor** Show this MSDS to the Doctor. There is no known antidote to avermectins. Emesis may be induced to reduce further absorption of avermectins, but benefits of this procedure must be weighed against risk of aspirating the glycol ether solvent carrier. Maintain supportive therapy.

PRECAUTIONS FOR USE



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Exposure Limits	Name	STEL		TWA		TWA Footnote
		mg/m3	ppm	mg/m3	ppm	
Other Exposure Info.	None assigned to the product by NOHSC. Ivermectin ECL (Merck's Exposure Control Limit): 0.2 mg/m3. TLV - is the time weighted average concentration of the work atmosphere for a normal 8-hour work day and a 40-hour work week, to which nearly all workers can be repeatedly exposed without adverse effect.					
Engineering Controls	Use with adequate ventilation.					

Personal Protection

Protective Equipment Avoid skin and eye contact. Wear protective clothing (overalls buttoned to neck and wrist), washable hat, impervious gloves (neoprene or nitrile) and chemical goggles. Avoid inhalation of mists and aerosols, if engineering controls do not remove these then a respirator with a pesticide cartridge or an air supplied respirator must be worn. Always wash hands before smoking, eating, drinking, or using the toilet. Thoroughly clean protective clothing, especially the inside of gloves after use.

Flammability

Flammability Non-flammable liquid.

Fire Hazards Contains C1 and C2 combustible liquids.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions STORAGE: The product is a Scheduled Poison (S6) and therefore must be stored and maintained and used in accordance with the relevant State Poison Act. Store in original container in a cool place and out of direct sunlight. Store in a well ventilated area away from oxidisers. Store below 30°C and protect from light. Store away from food, drink and animal feedstuffs.

TRANSPORT: Not classified as a Dangerous Substance for the purpose of road and rail transport.

Shipping Name (CSN) Not applicable

Spills and Disposal

Spills and Leaks SPILLS: Clear area of unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of vapour. Contain using sand and earth. Prevent run-off into drains or waterways. Absorb. Collect and seal in drums for disposal. Wash down area with detergent and/or alkali and rinse with excess water. If contamination of sewers or waterways has occurred, advise the local emergency services. Contaminated water can be treated by carbon adsorption.



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Spills and Leaks (con't) **DISPOSAL:** Refer to State Land Waste Management Authority. Advise combustible nature. Triple rinse empty container with water, do not discharge rinsate directly to water bodies due to potential toxicity to aquatic life. Puncture top, bottom and sides of empty container, then crush and take to an approved landfill or bury under at least 50 cm of soil in a non-crop, non-pasture area away from water sources and homes.

Fire/Explosion Hazard

Fire/Explos. Hazards If involved in a fire use carbon dioxide, dry chemical or foam extinguishers. Do not use water because of waterways contamination risk.

Fire fighters should wear full protective equipment and self-contained breathing apparatus as carbon monoxide and other harmful vapours may be generated.

If run-off water enters a water body or drainage system advise the local emergency services. Also alert medical personnel to be ready to treat for poisoning.

Hazchem Code Not applicable.

OTHER INFORMATION

Toxicology

Sovereign Toxicity Data

Test	Species	Dose	Result
Acute Oral	Rat	200 - 2000 mg/kg	No deaths
Acute Dermal	Rat	2000 mg/kg	Slight irritation
Dermal	Rabbit	0.5 mL	Slight irritation
Eye Irritation	Rabbit	0.1 mL	Conjunctival reactions
Skin sensitisation	Guinea Pig	1% ID; 100% Topical	Negative response

Environmental Hazards/ Waste Disposal

Studies indicate that when Ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Empty containers and any residual contents should be disposed of safely (e.g. by burying) as free Ivermectin may adversely affect fish or certain water-borne organisms. Do not contaminate dams, rivers or streams.

In the presence of sunlight, residual Ivermectin will degrade in a short period of time. Contaminated water can be treated by carbon adsorption. Material should be disposed of in a landfill approved for pesticide containers.

Environmental Protection Refer to the Environmental Protection Authority. Avoid contaminating waterways.



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S25 Avoid contact with eyes.

Risk Statements

R36 Irritating to eyes.

R48/25 Toxic: Danger of serious damage to health by prolonged exposure if swallowed.

R61 Toxic: May cause harm to the unborn child.

R64 May cause harm to breast fed babies.

CONTACT POINT**Contact**

CUSTOMER SERVICE: 1800 226 511

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User Information

TWA - is the time weighted average concentration of the work atmosphere for a normal 8-hour work day and a 40-hour work week, to which nearly all workers can be repeatedly exposed without adverse effect. CAS - Chemical Abstracts Service Registry Number

...End of Report...