

# **Optimmune**<sup>®</sup>

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Section 1: Identification of the Substance and Supplier	
Product name	Optimmune
Recommended use	Veterinary immunomodulator for dogs.
Company details	MSD Animal Health, 33 Whakatiki Street, Upper Hutt
	Phone: 0800 800 543  Fax: 0800 808 100 Website: www.msd-animal-health.co.nz Hours: 8 am – 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	September 2011
Section 2: Hazards Identification	
Hazard classifications	This product is non-hazardous as it does not trigger any of the minimum degrees of hazard under the HSNO Act 1996.

#### Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Cyclosporin A	59865-13-3	0.2%

	Section 4:	First Aid M	leasures
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Necessary first aid measures	<b>SKIN CONTACT</b> In case of 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.
	<b>EYE CONTACT</b> In case of 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.
	<b>INGESTION</b> Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control 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	This product contains cyclosporine, an immunosuppressive agent, which is known to cause cancer and kidney damage in humans.



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	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	Carbon dioxide (CO <sub>2</sub> ), extinguishing powder or water spray.
Hazchem code	Not applicable
Recommended protective clothing	Wear self-contained breathing apparatus (SCBA) plus protective gloves.
	Section 6: Accidental Release Measures
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.
	Section 7: Handling and Storage
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	Not required
Handling practices	Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.
Approved 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. Keep out of reach of children.
Store site requirements	Store below 25°C.
Packaging	Not applicable
Packaging	Not applicable Section 8: Exposure Control/Personal Protection
Packaging Workplace exposure standards	
Workplace exposure	Section 8: Exposure Control/Personal Protection
Workplace exposure standards Application in the	Section 8: Exposure Control/Personal Protection Not applicable



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#### Section 9: Physical and Chemical Properties

Appearance	Translucent colourless to light yellow ointment with no grittiness
Boiling Point	Not applicable
Melting/Softening point	Not determined
Vapour Pressure	Not applicable
Specific Gravity	Not applicable
Solubility (H <sub>2</sub> O)	Not determined
Percent Volatiles	Not applicable
Evaporation Rate	Not applicable

Section 10: Stability and Reactivity	
Stability of the substance	Stable under normal conditions.
Conditions to avoid	Extremes of temperature. Exposure to light.
Material to avoid	Avoid food products
Hazardous decomposition products	No dangerous decomposition is expected if used according to manufacturer's specifications.

#### Section 11: Toxicological Information

#### Acute effects for individual ingredients only

ORAL	Cyclosporine: LD50 1480mg/kg (rat). Toxic signs observed during the determination of the oral LD50 in rats included hyperventilation, drowsiness, muscle spasm, piloerection, weight loss and diarrhoea.
TEL	No TEL is set for this substance at this time.

#### Chronic/long term effects for individual ingredients only

Three month oral toxicity studies in rats an rhesus monkeys and a one year oral toxicity study in dogs were conducted with cyclosporine. Rats dosed at 45 mg/kg/day and greater exhibited serious nephro- and hepatotoxicity. Immunosuppressive activity was observed in rats at 14 mg/kg/day; however, this was attributed to the pharmacological activity of the material and was not considered a toxic effect. There were no signs of toxicity observed in monkeys or dogs at doses up to 300 mg/kg/day except for a high incidence of infectious lesions in dogs which was attributed to the immunosuppressive activity of cyclosporine.

#### **REPRODUCTIVE / DEVELOPMENTAL TOXICITY:**

Two-generation reproduction and peri and postnatal development studies were conducted in rats and developmental toxicity studies were conducted in rats and rabbits with cyclosporine. No reproductive or developmental toxicity was observed at dose levels that were not maternally toxic. No effect levels were 15 mg/kg/day for reproductive effects, 17 mg/kg/day for developmental effects in rats and 30 mg/kg/day for developmental effects in rats and 30 mg/kg/day for developmental effects in rabbits.

#### **MUTAGENICITY / GENOTOXICITY:**

Cyclosporine was negative in a bacterial mutagenicity study (Ames), in mouse and Chinese hamster micronucleus assays, in a chromosome aberration assay in Chinese hamster bone marrow cells, and in a dominant lethal test in



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male mice. Cyclosporine and its metabolites were negative in V79 Chinese hamster fibroblasts in the HGPRT test system.

#### CARCINOGENICITY:

There was no evidence of carcinogenicity in rats or mice given cyclosporine at doses up to 8 or 16 mg/kg/day, respectively. There was no evidence of carcinogenicity when petrolatum was given to mice dermally or subcutaneously or in rats intraperitoneally or orally.

#### Section 12: Environmental Information

#### Effects for individual ingredients only

EEL	Not applicable
	Section 13: Disposal Considerations
Disposal information	Disposal
	Dispose of unused contents in a suitable landfill.
	Container Disposal
	Dispose of empty container by burying in a suitable landfill.
Reference	Current version of NZS 8409 Management of Agrichemicals
	5 5
	Section 14: Transport Information
Relevant information	Not classified as a dangerous good for transport
	Section 15: Regulatory Information
Regulatory status	ACVM Registration No: A7869
· · · · · · · · · · · · · · · · · · ·	For conditions of registration see www.foodsafety.govt.nz
	Approval not required under the HSNO Act 1996.
	Approval not required under the right Act 1990.
	RESTRICTED VETERINARY MEDICINE

#### Section 16: Other Information

Additional information

Optimmune is a registered trademark.

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