

# SAFETY DATA SHEET

## OTOMAX<sup>®</sup>

### Section 1: Identification of the Substance and Supplier

<b>Product name</b>	<b>Otomax</b> Cream containing 0.1 – 0.3% betamethasone valerate, 0.7 – 1.3% clotrimazole and 0.2 – 0.5% gentamicin sulphate.
<b>Recommended use</b>	Veterinary treatment for dogs.
<b>Company details</b>	<b>MSD Animal Health, 33 Whakatiki Street, Upper Hutt</b> Phone: 0800 800 543 Fax: 0800 808 100 Website: <a href="http://www.msd-animal-health.co.nz">www.msd-animal-health.co.nz</a> Hours: 8 am – 5 pm, Mon – Fri
<b>Emergency telephone</b>	<b>0800 764 766 (0800 POISON) 24 hours human health</b> <b>0800 243 622 (0800 CHEMCALL) 24 hours</b>
<b>Date of preparation</b>	September 2011

### Section 2: Hazards Identification

<b>Hazard classifications</b>	6.5B, 6.8B
<b>Priority identifiers</b>	<b>WARNING</b>
<b>Secondary identifier</b>	6.5B May cause an allergic skin reaction 6.8B Suspected of damaging fertility or the unborn child from repeated oral exposure
<b>Risk &amp; Safety Phrases</b>	R63 Possible risk of harm to the unborn child

### Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Gentamicin sulphate	1405-41-0	<0.5%
Betamethasone valerate	2152-44-5	0.12%
Clotrimazole	23593-75-1	1.0%
Mineral oil	8012-95-1	65 – 75%

### Section 4: First Aid Measures

#### Necessary first aid measures

**SKIN CONTACT** 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.

**EYE CONTACT** 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.

**INGESTION** 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.

**INHALATION** Remove to fresh air. If any trouble breathing, get immediate

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medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or 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 clotrimazole, a broad spectrum antifungal agent, and betamethasone dipropionate, a steroid hormone. This product is indicated for the tropical treatment of dermal infections. Person with a prior history of asthma, treatment with systemic steroids, or pre-existing skin conditions, such as acne and dermatitis, may be more susceptible to the adverse effects of exposure to this product. Serious health effects including death have occurred in asthmatic patients during transfer from systemic corticosteroid to topical corticosteroid clinical use. .

### Section 5: Fire Fighting Measures

<b>Type of hazard</b>	Not classified as flammable
<b>Fire hazard properties</b>	Not applicable
<b>Regulatory requirements</b>	Not applicable
<b>Extinguishing media and methods</b>	Carbon dioxide (CO <sub>2</sub> ), extinguishing powder or water spray.
<b>Hazchem code</b>	Not applicable
<b>Recommended protective clothing</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).

### Section 6: Accidental Release Measures

<b>Emergency procedures</b>	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.
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### Section 7: Handling and Storage

<b>Precautions for safe handling</b>	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.
<b>Regulatory requirements</b>	Emergency Plan required where quantities greater than 1000L are present.
<b>Handling practices</b>	Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.
<b>Approved handlers</b>	Not required
<b>Conditions for safe storage</b>	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.
<b>Store site requirements</b>	Store below 25°C.
<b>Packaging</b>	Schedule 4

### Section 8: Exposure Control/Personal Protection

<b>Workplace exposure standards</b>	Mineral Oil: TWA 5 mg/m <sup>3</sup> Mist
<b>Application in the workplace</b>	Ensure adequate ventilation. Keep container sealed when not in use.
<b>Exposure standards outside the workplace</b>	No TEL is set for this substance at this time EEL – not applicable
<b>Personal protection</b>	Wear chemical resistant gloves, facemask or goggles.

### Section 9: Physical and Chemical Properties

Appearance	Smooth, uniform, white to off-white viscous suspension
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

<b>Stability of the substance</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Open flames and extremes of temperature.
<b>Material to avoid</b>	Avoid food products. Oxidisers. Strong acids and bases.
<b>Hazardous decomposition products</b>	Carbon oxides (CO <sub>x</sub> ).

### Section 11: Toxicological Information

#### Acute effects for individual ingredients only

ORAL	Clotrimazole: LD50 708 mg/kg (rat); 761-923 mg/kg (mouse); >1000 mg/kg (rabbit & dog). Betamethasone dipropionate: LD50 >5000 mg/kg (rat); >50 mg/kg (mouse); >1000 mg/kg (dog).
DERMAL	Mineral oil is slightly irritating to the skin of rabbits.
TEL	No TEL is set for this substance at this time.

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

Dogs were treated with clotrimazole at doses of 25, 50, or 150 mg/kg/day for six or twelve months. Dose-related clinical effects observed included emesis shortly after dosing, soft stool, transient increased salivation, conjunctivitis accompanied by lacrimation, and body weight loss (high-dose group). A NOEL was not determined for this study.

Rabbits are the most sensitive species tested with betamethasone dipropionate in regards to repeated topical skin application. Serious effects including death, hypothalamic-pituitary-adrenal (HPA) axis suppression, skeletal muscle wasting, immune organ atrophy, and abdominal distention in more than 50% of animals tested were observed following application for 10 to 30 days with 0.05% betamethasone propionate cream, lotion or ointment formulations. However, rats and mice demonstrated only minimal systemic effects, principally thymic involution, when either 0.05% or 0.1% cream was applied to skin six days a week for up to eight weeks.

In a 28-day oral toxicity study in dogs treated with 0.05 to 1 mg/kg/day of betamethasone dipropionate, drug-related effects observed included reversible changes in haematological, biochemical and physiological data (increased fluid intake and urinary output, decreased hematocrit and haemoglobin values, alterations in white blood cell counts, increases in liver enzymes, thymic involution and adrenal atrophy) which were attributed to the known pharmacological activity of corticosteroid drugs.

Female rats received mineral oil in the diet at dosages up to 20,000 ppm for 90 days. Effects observed included increased liver, kidney, and spleen weights, and enlargement of the lymph nodes together with granulomatous lipid granules.

**REPRODUCTIVE / DEVELOPMENTAL TOXICITY:**

High oral doses of clotrimazole in rats and mice (ranging from 50 – 1250 mg/Kg) resulted in embryotoxicity (possibly secondary to maternal toxicity), impairment of mating, decreased litter size and number of viable young and decrease pup survival to weaning.

Corticosteroids are known teratogens in rodent species with some teratogenic effects having been observed in non-human primates. They are generally teratogenic in laboratory animals when administered systemically at low dosages.

Subcutaneous administration of up to 0.42 mg of a mixture of betamethasone/sodium phosphate and betamethasone/acetate suspension, on days 12 and 13 of gestation in pregnant rats, caused decreases in maternal and fetal weight gain, occurrence of cleft palate and omphalocele (umbilical hernia), and impaired growth of fetal heart, liver, adrenals, kidneys, and skeletal muscle. Dose-related increases in fetal resorptions in rabbits and mice following single intramuscular doses up to 1 and 33 mg/kg, respectively were observed. Additionally, betamethasone dipropionate has been shown to produce umbilical hernias, cephalocele (cranial protrusion) and cleft palate in rabbits when given intramuscular doses of 0.05 mg/kg/day during gestation.

Suppression of adrenocorticotrophic hormone (ACTH), following intramuscular administration of betamethasone in monkeys during gestation resulted in decreases in fetal adrenal weight, cortical cell size, appearance of apoptosis and cellular disorganization.

**CARCINOGENICITY:**

Clotrimazole was not carcinogenic in rats exposed to oral doses for 18 months.

**Section 12: Environmental Information****Effects for individual ingredients only**

EEL

Not applicable

**Section 13: Disposal Considerations**

<b>Disposal information</b>	<b>Disposal</b> Dispose of unused contents in a suitable landfill.
	<b>Container Disposal</b> Dispose of empty container by burying in a suitable landfill.
<b>Reference</b>	Current version of NZS 8409 Management of Agrichemicals

**Section 14: Transport Information**

<b>Relevant information</b>	Not classified as a dangerous good for transport
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**Section 15: Regulatory Information**

<b>Regulatory status</b>	ACVM Registration No: A7883 For conditions of registration see <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>
	HSNO Approval Code: HSR002094.
	<b>RESTRICTED VETERINARY MEDICINE</b>
<b>HSNO and ACVM controls</b>	<b>Emergency Plan:</b> 1000 Litres

**Section 16: Other Information**

<b>Additional information</b>	Otomax is a registered trademark.
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