

# SAFETY DATA SHEET

## Dolorex™

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

<b>Product name</b>	<b>Dolorex</b> Liquid containing 1-1.5% butorphanol tartrate
<b>Recommended use</b>	Centrally acting narcotic agonist-antagonist analgesic.
<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>	0800 764 766 (0800 POISON) 24 hours human health 0800 243 622 (0800 CHEMCALL) 24 hours
<b>Date of preparation</b>	August 2011

### Section 2: Hazards Identification

<b>Hazard classifications</b>	6.9B
<b>Priority identifiers</b>	<b>WARNING</b>
<b>Secondary identifier</b>	6.9B May cause target organ damage through prolonged or repeated oral exposure at high doses.
<b>Risk &amp; Safety Phrases</b>	R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed

### Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Butorphanol tartrate	58786-99-5	0.019g/mL

### Section 4: First Aid Measures

<b>Necessary first aid measures</b>	<p><b>ACCIDENTIAL INJECTION</b> Wash and disinfect self injection injuries. Seek medical advice if irritancy or an allergic response occurs – show this SDS.</p> <p><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.</p> <p><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.</p> <p><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 National Poisons Centre. If symptoms persist, consult a doctor.</p>
<b>Required instructions</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.
<b>Notes for medical</b>	Butorphanol is a potent analgesic with appreciable narcotic antagonist activity.

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### personnel

Butorphanol is absorbed orally or parentally. The human therapeutic dose is 1-4mg IM or 0.2-2mg IV. Peak plasma concentration occurs ½ - 1 hour after IM injection and 1-1½ hours after oral administration. Pharmacological effect lasts 3-4 hrs. For gross over dosage, Naloxone is the specific antagonist.

### 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>	None allocated
<b>Recommended protective clothing</b>	Wear self-contained breathing apparatus (SCBA) plus protective gloves.

### 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>	Not required
<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 in original container and below 25°C.
<b>Packaging</b>	Schedule 4

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### Section 8: Exposure Control/Personal Protection

<b>Workplace exposure standards</b>	No WES is set for this substance at this time.
<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 are required for this substance at this time No EEL is set for this substance at this time
<b>Personal protection</b>	Wear chemical resistant gloves, facemask or goggles.

### Section 9: Physical and Chemical Properties

Appearance	Clear solution
Boiling Point	Approximately 100°C
Melting Point	Approximately 0°C
Vapour Pressure	2.37 kPa at 20°C
Specific Gravity	1.114
Solubility (H <sub>2</sub> O)	Completely soluble in water
Percent Volatiles	Not determined
Evaporation Rate	Not determined

### Section 10: Stability and Reactivity

<b>Stability of the substance</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Avoid high temperatures
<b>Material to avoid</b>	Avoid food products
<b>Hazardous decomposition products</b>	No dangerous decomposition is expected.

### Section 11: Toxicological Information

#### Acute effects for individual ingredients only

ORAL	Butorphanol: Orally 10mg/kg gives slight cardiovascular and respiratory depression. NOAEL 0.3mg.kg bw/day Rat oral LD50 = 315mg/kg
TEL	No TELs are required for this substance at this time.

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

### Section 12: Environmental Information

Effects for individual ingredients only.

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EEL No EEL is set for this substance at this time.

### 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

**Relevant information** Not classified as a dangerous good for transport

### Section 15: Regulatory Information

**Regulatory status** HSNO Approval Code: HSR001963.  
For a full listing of controls see [www.epa.govt.nz](http://www.epa.govt.nz)

ACVM registration number: A06877  
For conditions of registration see [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

**RESTRICTED VETERINARY MEDICINE**

### Section 16: Other Information

**Additional information** Dolorex is a trademark.

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