SAFETY DATA SHEETS

This SDS packet was issued with item:

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N/A

SAFETY DATA SHEET

Intervet Schering-Plough Animal Health

Dolorex

Section 1: Identification of the Substance and Supplier

Product name	**Dolorex** Liquid containing 1-1.5% butorphanol tartrate
Recommended use	Centrally acting narcotic agonist-antagonist analgesic.
Company details	**Intervet Limited** **12 Shakespeare Ave, Upper Hutt** **Phone: 0800 447 838, Fax 0800 424 838 Website: www.intervet.co.nz** **Hours 8am – 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	October 2008

Section 2: Hazards Identification

Hazard classifications	6.9B
Priority identifiers	**Warning**
Secondary identifier	6.9B May cause target organ damage through prolonged or repeated oral exposure at high doses.
Risk & Safety Phrases	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

Necessary first aid measures

ACCIDENTIAL INJECTION: Wash and disinfect self injection injuries. Seek medical advice if irritancy or an allergic response occurs – show this SDS.

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 National Poisons 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	Butorphanol is a potent analgesic with appreciable narcotic antagonist activity. Butorphanol is absorbed orally or parentally. The human therapeutic does 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

Type of hazard	Not classified as flammable
Fire hazard properties	Not applicable
Regulatory requirements	Not applicable
Extinguishing media and methods	Carbon dioxide (CO_2), extinguishing powder or water spray
Hazchem code	None allocated
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	See below.
Store site requirements	Store in original container and below 25°C. Keep out of reach of children
Packaging	Schedule 4

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	No WES is set for this substance at this time.
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No TEL are required for this substance at this time No EEL is set for this substance at this time
Personal protection	Wear chemical resistant gloves, facemask or goggles.

Section 9: Physical and Chemical Properties

Appearance	Clear, colourless liquid with characteristic odour.
Boiling Point	Approximately 100°C
Melting Point	Approximately 0°C
Vapour Pressure	2.37 kPa at 20°C
Specific Gravity	1.114
Solubility (H_2O)	Completely soluble in water.
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	Avoid high temperatures
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	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.

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

Section 13: Disposal Considerations

Disposal information	**Disposal** Dispose of this product only by using according to the label, or at an approved landfill, or other approved facility. **Container Disposal** Bury in an approved landfill or other approved facility.
Reference	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.ermanz.govt.nz ACVM registration number: A06877 For conditions of registration see www.nzfsa.govt.nz/acvm Prescription Animal Remedy **(P.A.R)** Class II For use only by, in the presence of, or under the control of a veterinarian.
HSNO and ACVM controls	-

Section 16: Other Information

Additional information	Dolorex is a trademark of Intervet Limited

SAFETY DATA SHEET

Dolorex™

Section 1: Identification of the Substance and Supplier

Product name	**Dolorex** Liquid containing 1-1.5% butorphanol tartrate
Recommended use	Centrally acting narcotic agonist-antagonist analgesic.
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	August 2011

Section 2: Hazards Identification

Hazard classifications	6.9B
Priority identifiers	**WARNING**
Secondary identifier	6.9B May cause target organ damage through prolonged or repeated oral exposure at high doses.
Risk & Safety Phrases	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

Necessary first aid measures	**ACCIDENTIAL INJECTION** Wash and disinfect self injection injuries. Seek medical advice if irritancy or an allergic response occurs – show this SDS. **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 National Poisons 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	Butorphanol is a potent analgesic with appreciable narcotic antagonist activity.

personnel	Butorphanol is absorbed orally or parentally. The human therapeutic does 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

Type of hazard	Not classified as flammable
Fire hazard properties	Not applicable
Regulatory requirements	Not applicable
Extinguishing media and methods	Carbon dioxide (CO_2), extinguishing powder or water spray
Hazchem code	None allocated
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 in original container and below 25°C.
Packaging	Schedule 4

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	No WES is set for this substance at this time.
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No TEL are required for this substance at this time No EEL is set for this substance at this time
Personal protection	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_2O)	Completely soluble in water
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance	Stable under normal conditions.
Conditions to avoid	Avoid high temperatures
Material to avoid	Avoid food products
Hazardous decomposition products	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.

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

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

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

ACVM registration number: A06877
For conditions of registration see www.foodsafety.govt.nz

RESTRICTED VETERINARY MEDICINE

Section 16: Other Information

Additional information

Dolorex is a trademark.