

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	ISOFLURANE Vet
Product code:	A008198
Recommended use:	Inhalation anaesthetic for use in horses, cats, dogs, ornamental birds, reptiles and small mammals
Company details:	Boehringer Ingelheim Animal Health New Zealand Limited
Address:	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
Telephone number:	Phone: +64 9 263 1400
Emergency telephone number:	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
Date of preparation:	10 September 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:	Liquid	
Product components:		
Name	CAS	Proportion
Isoflurane	26675-46-7	100%

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.3A, 6.4A, 6.9B
Priority and secondary identifiers:	N/A
Risk and safety phrases:	Warning – may cause mild skin irritation. Avoid skin contact. Harmful – may cause eye irritation. Avoid contact with eyes. Harmful – May cause organ damage from repeated oral exposure at high doses

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately <u>Eye contact:</u> Rinse with plenty of water immediately. If irritation persists, consult an eye specialist. <u>Skin contact:</u> Wash immediately with plenty of soap and water. Remove contaminated clothing and wash again. <u>Inhalation:</u> Move the affected person away from the contaminated area and into the fresh air. Make the affected person rest. Note: an unconscious person must be placed in the recovery position. If breathing stops, give artificial respiration. Call a doctor immediately. <u>Ingestion:</u> Rinse mouth out with water. NEVER attempt to induce vomiting. Call a doctor immediately.
Workplace facilities:	N/A
Required instructions:	N/A
Notes for medical personnel:	N/A

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:	NOT combustible. However, it may present if involved in a fire.
Fire hazard properties:	Toxic vapours are released. Highly volatile liquid. On heating there is a risk of bursting due to internal pressure build-up.
Regulatory requirements:	N/A
Extinguishing media and methods:	All extinguishing agents can be used.
Hazchem code:	None
Recommended protective clothing:	Self-contained breathing apparatus. Stay upwind. Evacuate the personnel away from the fumes. Cool down the containers/equipment exposed to heat with a water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Clear area of personnel and move upwind. Control personal contact by using protective equipment. Prevent spillage from entering drains or water courses. Absorb or cover spill with sand, earth, or inert material. Collect residues and seal in labeled drums for disposal. Wash spill area with large quantities of water and collect washings.
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Handle with care.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required
Conditions for safe storage:	Store in a cool, dry place in a well ventilated area. Store away from sources of heat or ignition and incompatible materials. Do not store in pits, basements or areas where vapours may be trapped. Keep containers securely sealed. Store at temperatures of between 15°C and 30°C.
Store site requirements:	N/A
Packaging:	N/A

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	Good, natural ventilation is usually sufficient under normal conditions of use.
Application in the workplace:	N/A
Exposure standards outside the workplace:	N/A
Engineering controls:	N/A
Personal protection:	Avoid contact with skin and eyes. Do not breathe vapours. Do NOT smoke.
References:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Clear, colourless liquid. <u>Odour:</u> Minimal odour <u>Solubility:</u> Insoluble in water <u>Boiling point:</u> 48.5°C
Required specifications:	N/A

Further specifications:	N/A
Specific advice:	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable at ambient temperature and under normal conditions of use.
Conditions to avoid:	No dangerous reactions known under normal conditions of use.
Material to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	On combustion or on thermal decomposition toxic gases may be released.
Hazardous polymerization:	Will not occur
Specific data:	N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	LC 50 inhalation (vapours), /3h : 125.7 mg/l. (Rat) LC 50 inhalation (vapours), /3h : 138 mg/l. (Mouse) LD 50 oral (Rat) : 4770 mg/kg. LD 50 oral (Mouse): 5080 mg/kg.
Summaries data:	N/A
Effects of Acute Exposure:	<u>Eye Contact:</u> The liquid is mildly discomforting and is capable of causing a mild, temporary redness of the conjunctiva, temporary impairment of vision and/or other transient eye damage. <u>Skin Contact:</u> The liquid may produce skin discomfort following prolonged contact. Vapourising liquid causes rapid cooling and contact may cause cold-burns or frostbite. <u>Inhalation:</u> The vapour is discomforting to the upper respiratory tract and may be harmful if inhaled. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. Vapour is heavier than air and may displace and replace air in breath zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. <u>Ingestion:</u> Considered an unlikely route of entry in commercial/industrial environments. The liquid is highly discomforting and is toxic if swallowed in large quantities. Ingestion may result in nausea, pain or vomiting.
Effects of Chronic Exposure:	Principal routes of exposure are usually by inhalation of vapour and skin contact/absorptions. Prolonged or continuous skin contact with the liquid may cause defatting with drying, cracking, irritation and dermatitis following. Fluorocarbons can cause an increase risk of cancer, spontaneous abortion and birth defects.

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions:	Avoid product entering waterways or sewers.
Data organisation :	N/A
Environmental risk and safety phrases:	N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :	Recycle whenever possible. Bury residue at an approved landfill. Ensure damaged or non-returnable containers are gas-free before disposal. Bury empty containers at an approved landfill.
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SECTION 14: TRANSPORT INFORMATION

Relevant information:	Not classified as dangerous goods for road transport Tracking not required
Other requirements:	N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:	Registered pursuant to the ACVM Act 1997, No.A008198. See www.foodsafety.govt.nz for registration conditions.
	Approved pursuant to the HSNO Act 1996, Approval Code HSR001978. See www.epa.govt.nz for approval conditions.
HSNO and ACVM controls:	Refer to Section 3
List exposure limits:	N/A

SECTION 16: OTHER INFORMATION

Additional information:	For product information visit the Boehringer Ingelheim website www.boehringer-ingelheim.co.nz While the information set forth is believed to be accurate as of the date hereof, BOEHRINGER INGELHEIM makes no warranty with respect hereto and disclaims all liability from reliance thereon.
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