

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Laser Animal Health Isoflurane Inhalation Anaesthetic  
Other names: None Allocated  
Recommended use: Inhalation anaesthetic  
Supplier Details: Pharmachem  
Unit 6, 70 Fison Ave West  
Eagle Farm QLD 4009  
Telephone: (07) 3868 0333  
Facsimile: (07) 3868 0344  
Contact Person: Mr Gray Boston  
Emergency Telephone: (07) 3630 1654

## SECTION 2 HAZARDS IDENTIFICATION

This product is classified as not dangerous goods under the Australian Dangerous Goods Code and is not hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances and the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)].

May irritate the eyes and skin. Avoid contact with eyes and skin.

Risk phrase(s):

R36: Irritating to eyes.  
R37: Irritating to respiratory system.  
R38: Irritating to skin.

Safety phrase(s):

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36: Wear suitable protective clothing.  
S37: Wear suitable gloves.  
S39: Wear eye / face protection.

Other Health Hazards: None known

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Cas No.	Proportion
1-Chloro-2,2,2-Trifluoroethyl Difluoromethyl Ether	26675-46-7	100%

#### **SECTION 4 FIRST AID MEASURES**

The following First Aid directions have been set by the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Aging:

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone 131126. (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals*)

However the following additional information is provided for assistance in emergent circumstances:

Inhalation: Remove to fresh air. If necessary give artificial respiration and seek medical help  
Skin: Wash immediately with soap and water  
Eye: Flush eyes out for at least 15 minutes with water.  
Oral: Do not induce vomiting. Give a glass of water.

Advice to Doctors: Treat symptomatically

#### **SECTION 5 FIRE FIGHTING MEASURES**

Suitable extinguishing media:	Non-flammable. Use extinguishing media appropriate for surrounding fire
Hazards from combustion products:	Emits toxic and corrosive fumes under fire conditions
Special protective precautions and equipment for fire fighters:	Wear self-contained breathing apparatus if there is danger of leakage
Additional information:	None known
Hazchem Code:	None allocated

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Emergency procedures:	Allow small spills to dissipate with good ventilation. For large spills wear self-contained breathing apparatus
Methods and materials for containment and clean up:	Absorb on vermiculite or other inert absorbent material and place in closed container for disposal.

## SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

The following Safety Directions have been set by the Office of Chemical Safety (OCS) as part of the assessment of this product for registration by the Australian Pesticides & Veterinary Medicines Authority (APVMA). (*FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals*):

May irritate the eyes and skin. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities:

The following Storage Directions have been set by the Australian Pesticides & Veterinary Medicines Authority (APVMA) as part of the assessment of this product for registration:

Store below 25°C (air conditioning). Protect from direct sunlight and direct heat. Store in tightly closed original container.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	None allocated
Biological limit values:	None allocated
Engineering controls:	Ensure adequate ventilation during use.
Personal protective equipment:	
Respiratory:	Self-contained breathing apparatus for emergency use
Ventilation:	Adequate general and local ventilation
Eye and Face:	Safety glasses or goggles and/or face shield
Gloves:	Impervious gloves
Other Equipment:	Provide safety shower and eye wash facilities

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless liquid
Odour:	Slight pungent odour
Boiling Point:	48.5°C
Melting Point:	Not known
Specific Gravity (H2O=1):	1.50
Vapour Pressure:	330mmHg @ 20°C
Vapour Density (Air=1):	>1
Solubility in Water:	Negligible

## SECTION 10 STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	None known
Incompatible materials:	Reactive metals such as sodium, potassium, or finely divided zinc, aluminium or magnesium, especially at high temperature
Hazardous decomposition products:	Halogen acids and carbonyl halides formed by thermal or oxidative decomposition
Hazardous reactions:	Hazardous polymerization will not occur

## SECTION 11 TOXICOLOGICAL INFORMATION

Irritant. Chronic exposure may be harmful. Anaesthetic

LD <sub>50</sub>	
Oral (rat):	4770 mg/kg
Oral (mouse):	5080 mg/kg
Intraperitoneal (mouse):	3030 mg/kg
Intraperitoneal (rat):	4280 mg/kg

LC <sub>50</sub>	
Inhalation (rat):	15,300 ppm/3 hours
Inhalation (mouse):	16,800 ppm/3 hours

## SECTION 12 ECOLOGICAL INFORMATION

No ecological information available. However, this material is a veterinary inhalation anaesthetic supplied in packs containing 250 mL of isoflurane and is therefore unlikely to have significant ecological effects.

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers:

The following disposal directions for containers have been set by the Australian Pesticides & Veterinary Medicines Authority (APVMA) as part of the assessment of this product for registration:

Dispose of empty containers by wrapping in paper and placing in garbage. Alternatively glass bottles should be completely emptied before disposal and placed in a glass recycle bin.

Dispose of unused chemical in a local authority landfill in accordance with local authority instructions.

Special precautions for landfill or incineration: None known

## **SECTION 14 TRANSPORT INFORMATION**

Not defined as Dangerous Goods by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## **SECTION 15 REGULATORY INFORMATION**

This product has been registered by the Australian Pesticides and Veterinary Medicines Authority (APVMA). In granting registration to any product, the APVMA has exercised its legislative responsibility to ensure that the product is suitably formulated and properly labelled and, when used according to instructions is:

- safe to the host, the user, consumers and the environment;
- efficacious (that is, the product does the job it claims it shall do); and
- not unduly prejudicial to trade.

The APVMA uses the services of a number of Australian and State government agencies as advisers to help with some of these evaluations of applications for registration of agricultural and veterinary chemical products. These include:

- the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Ageing which:
  - evaluates and reports on toxicology and metabolism studies; proposes first aid and safety directions; determines poison schedule classifications; and establishes acceptable daily intakes (ADIs) and acute reference doses (ARfD); and
  - evaluates the occupational health and safety aspects of an application and recommends safety directions and occupational controls on use and advises on a Material Safety Data Sheet (MSDS);
- the Commonwealth Department of the Environment and Heritage (DEH) which evaluates environmental data and recommends appropriate use controls and instructions for the product that will protect the environment; and
- State and Territory departments responsible for agricultural and primary industries which evaluate and reports on efficacy and target crop or animal safety data for new agricultural chemicals and new uses of registered products. In some cases the APVMA contracts this work out to other agencies such as universities, the CSIRO or to other experts.

Although all ingredients appear in the Australian Inventory of Chemical Substances (AICS), they have not been assessed by NICNAS (National Industrial Chemicals Notification and Assessment Scheme)

## SECTION 16 OTHER INFORMATION

Date of last revision of the MSDS: January 09

### **CONTACT POINT**

Mr Gray Boston, General Manager  
B/Hrs Phone (07) 3868 0333 A/Hrs (07) 3630 1654

#### References:

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals, March 2005
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)]
4. AICS (Australian Inventory of Chemical Substances)
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, October 2005
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, August 2001
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6<sup>th</sup> Edition
8. Hazardous Substances Information System, Version 1.2.2 (September 2004), Last Updated – November 2005, NOHSC

All information contained in this Material Safety Data Sheet is as accurate and up to date as possible. Since Pharmachem cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Pharmachem will not be responsible for damages of any nature resulting from use of or reliance upon the information. No expressed or implied warranties are given other than those implied as mandatory by Commonwealth State or Territory legislation.