

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078071468

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078085160

**Product Name:**  
**Issued:**

**IsoFlo**  
**Jan-23-2009**



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer Name and Address:** Abbott Laboratories  
Animal Health Division  
200 Abbott Park Rd.  
Building J48  
Abbott Park, Illinois 60064

**Customer Service Telephone:** 1 - 888 - 299 - 7416 (Abbott Animal Health 8:00 am - 5:00 pm CST)

**Emergency Telephone:** 1 (800) 424-9300 CHEMTREC (USA)  
1 (703) 527 3887 CHEMTREC (INTERNATIONAL)

**Product Name:** IsoFlo

**Synonyms:** Isoflurane  
Isosol  
Isothesia  
1-Chloro-1-(difluoromethoxy)-2,2,2-trifluoroethane  
1-Chloro-2,2,2-trifluoroethyl difluoromethyl ether

**List Number:** 5260  
B506

**Drug Code Number:** 24275

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	OSHA PEL	ACGIH TLV	AIHA WEEL	Abbott EEL	Skin Notation
Isoflurane 26675-46-7	100	Not Listed	Not Listed	Not Applicable	60 ppm (450 mg/m <sup>3</sup> ) TWA	None

**Notes:** OSHA PEL: US Occupational Safety and Health Administration-Permissible Exposure Limit.  
ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.  
AIHA WEEL: American Industrial Hygiene Association - Workplace Environmental Exposure Level.  
Abbott EEL: Abbott Laboratories Employee Exposure Limit.  
TWA: 8-hour Time Weighted Average.  
STEL: 15-minute Short Term Exposure Limit.  
C: Ceiling Limit.

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:**

Clear, colorless liquid.  
Mild, pungent, musty, ethereal odor.  
Product has sedative/anesthetic effects. May be irritating to skin, eyes and respiratory tract.

**Routes of Exposure:**

**Oral:** No  
**Dermal:** Not determined.

**Product Name:** IsoFlo  
**Issued:** Jan-23-2009

### 3. HAZARDS IDENTIFICATION

**Inhalation:** Clinical Route

**Hazard Information:**

**Ingestion Rating:** None.  
**Skin Absorption Rating:** Not determined.  
**Inhalation Rating:** None  
**Corrosiveness Rating:** Not determined.  
**Skin Contact Rating:** Not determined.  
**Skin Sensitization Rating:** Not determined.  
**Eye Contact Rating:** Not determined.  
**Target Organs:** Nervous System, Respiratory System, Cardiovascular System , Digestive System , Fetus.

**Carcinogenicity Rating:**

Ingredients	Percent	OSHA:	NTP:	IARC:	ACGIH:
Isoflurane	100	Not Listed	Not Listed	Not Listed	Not Listed

**NFPA Rating:** Not determined.

**Signs and Symptoms:** Clinical data suggests the following: headaches, incoordination, nausea, slow heart rate, sedation, sleep, drowsiness, dizziness, hyperthermia, vomiting, breathing difficulty. Very rare instances of allergic reactions.

**Medical Conditions Aggravated by Exposure:** Data suggest any preexisting ailments in the following organs: central nervous system, cardiovascular system, gastrointestinal system, respiratory system. Hypersensitivity to the material and/or similar materials.

### 4. FIRST AID MEASURES

**Eye Contact:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Skin Contact:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Inhalation:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Ingestion:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Notes To Physician:** Maintain ventilation, electrolyte balance and monitor cardiovascular function, as necessary.

### 5. FIRE FIGHTING MEASURES

**Flammability:**

**Product Name:** IsoFlo  
**Issued:** Jan-23-2009

**Flammability Class:** Non-flammable.  
**Lower Explosive Limit:** Not determined.  
**Autoignition Temp. (°C):** Not determined.

**Fire-Fighting Information:**

**Suitable Extinguishing Media:** Use appropriate medium for the underlying cause of the fire.

**Special Protective Equipment:** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**Special Exposure Hazards:** Thermal decomposition products may include: oxides of carbon , HCl. and HF

**Min. Ignition Energy-Cloud (mJ):** > 5000

## 6. ACCIDENTAL RELEASE MEASURES

**Methods of Cleaning and Collecting:** Clean up promptly. Absorb with suitable material. Ventilate and wash spill area. Place into an appropriate container for disposal. Dispose of material as directed in Section 13. Wash spill area site after wipe up is complete.

**Personal Precautions:** Restrict spill area to those equipped with personal protection specified in Section 8.

**Environmental Precautions:** Not determined.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, or clothing.

**Storage:** Store according to label instructions.

**Special Precautions:** Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Anesthetic gas scavenging systems should be used during typical product application. Handle inside a process enclosure or chemical fume hood during manufacturing or laboratory use.

**Respiratory Protection:** If engineering controls are in place, respirators are generally not required during normal conditions of use.

**Eyes:** Eye protection not required during typical product use conditions. Wear eye protection appropriate to exposures during manufacturing/laboratory use.

**Gloves:** Impervious gloves.

**Other PPE Data:** Not determined.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, colorless liquid.  
**Odor:** Mild, pungent, musty, ethereal odor.  
**Boiling Pt. @ 760 mm Hg (°C):** 48.5

**Product Name:** IsoFlo  
**Issued:** Jan-23-2009

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Melting/Freezing Point (°C):** Not determined.  
**Vapor Pressure (mm Hg)** 295 - 330 mm Hg at 25 deg. C  
**Vapor Density (Air = 1):** 6.3  
**Bulk Density at 20°C:** 1.45  
**Solubility:** Soluble in: organic solvents. Slightly soluble in: water (11.2 grams/l)  
**Specific Gravity:** 1.496 @ 25 deg C  
**pH:** Not determined.  
**Viscosity (centipoise):** Not determined.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.  
**Self-Heating Tendency:** No exotherms seen below 300 deg C in ARC testing.  
**Materials to Avoid:** Strong bases. Alkaline metals.  
**Hazardous Decomposition Products:** When heated to decomposition it emits : HF, HCl, COx.  
**Hazardous Polymerization:** Not known to occur.  
**Conditions to Avoid:** Not determined.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity - Oral:** Data for component (s) given below.

Ingredients	Percent	Acute Test	Value	Units	Species
isoflurane	100	LD50 =	4770 - 5080	mg/kg	Mice Rats

**Acute Toxicity - Dermal:** Not determined.

**Acute Toxicity - Inhalation:** Data for component (s) given below.

Ingredients	Percent	Test	Value	Units	Species
isoflurane	100	LC 50 =	15,300 - 16,800	ppm	Rats Mice

**Corrosivity:** Not determined.

**Dermal Irritation:** Not determined.

**Eye Irritation:** A similar material is an eye irritant.

**Sensitization:** Not determined.

**Target Organ Effects:** In clinical use target organ effects include: central nervous system.

**Reproductive Effects:** In animals adverse reproductive effects include: maternal toxicity, reduced fetal growth, fetal abnormalities.

**Carcinogenicity:** Not determined.

**Mutagenicity:** Negative in the Ames assay. Negative in the chromosomal aberration assay.

**Product Name:** IsoFlo  
**Issued:** Jan-23-2009

Ingredients	Percent	Ames Test:	Mouse Lymphoma Assay	Micronucleus Assay	Chromosomal Abbr. Assay
isoflurane	100	Negative	No Data.	No Data.	Negative

**Notes:**

1. ALD: Approximate lethal dosage
2. LC50: Concentration in air that produces 50% mortality
3. LD50: Oral or dermal dosage that produces 50% mortality

## 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Not determined.

**Biodegradation:** Not determined.

**General Notes:** Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

**Notes:**

1. EC50: Concentration in water that produces 50% mortality in *Daphnia* sp.
2. LC50: Concentration in water that produces 50% mortality in fish.
3. EbC50/ErC50: Concentration in water that produces 50% inhibition of growth and in algae.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** All waste must be packaged, labeled, transported and disposed of in conformance with applicable local, state, and federal laws and regulations and in accordance with good engineering practices.

## 14. TRANSPORT INFORMATION

**DOT/ADR:**  
**Status:** Not Regulated.

**ICAO/IATA:**  
**Status:** Regulated.  
**Proper Shipping Name:** Aviation regulated liquid, n.o.s (1-Chloro-1-(difluoromethoxy)-2,2,2-trifluoroethane)  
**Hazard Class:** 9  
**UN ID:** UN3334

**IMDG:**  
**Status:** Not Regulated.

**TDG (Canada):**  
**Status:** Not Regulated.

## 15. REGULATORY INFORMATION

### SARA 313 Information

**Product Name:** IsoFlo  
**Issued:** Jan-23-2009

Ingredients	Percent	SARA 313 Chemical:	CERCLA RQ/SARA EHS RQ (lbs):	SARA EHS TPQ (lbs):
Isoflurane	100	No	Not Applicable	Not applicable

**SARA 311/312 Hazard Categories:**

**Immediate Health:** Yes  
**Delayed Health:** No  
**Fire:** No  
**Sudden Pressure:** No  
**Reactivity:** No

**TSCA Inventory Status:** Exempt.

**CERCLA Status:** Not determined.

**RCRA Status:** Not determined.

**Proposition 65 Status:** Does not contain chemicals known to the state of California to cause cancer or reproductive harm.

**EC HAZARD CLASSIFICATION:**

**Category of Danger:** Exempt.  
**Indication of danger:** Exempt.

**GHS CLASSIFICATION:** Not Determined.

**CANADIAN REGULATIONS:**

**Canadian Inventory:** Not determined.  
**Canadian NDSL:** Not determined.  
**WHMIS Hazard Class:** Not Determined.

**Notes:**

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substances Control Act.
5. EC = European Community.
6. WHMIS = Canadian Workplace Hazardous Materials Information System.
7. UN GHS = United Nations Globally Harmonized System for Hazard Identification.

## 16. OTHER INFORMATION

**Document Authored By:** Global Occupational Toxicology (D-05TX)

**Supersedes the MSDS dated:** Oct-19-2007

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**Product Name:**  
**Issued:**

**IsoFlo**  
**Jan-23-2009**



**Product Name:**  
**Issued:**

**IsoFlo**  
**Dec-27-2011**



## **SAFETY DATA SHEET**

### **Section 1. Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product Identifier**

**Product Name:** IsoFlo

**Synonyms:** Isoflurane; Isosol; Isothesia; 1-Chloro-1-(difluoromethoxy)-2,2,2-trifluoroethane; 1-Chloro-2,2,2-trifluoroethyl difluoromethyl ether

**List Number:** 5260; B506

**Drug Code Number:** 24275

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use:** General inhalation anaesthetic

#### **1.3 Details of the supplier of the safety data sheet**

**Supplier:** Abbott Laboratories  
Animal Health Division  
200 Abbott Park Road  
Building J48  
Abbott Park, IL 60048

**Customer Service Telephone:** 1 - 888 - 299 - 7416 (Abbott Animal Health 8:00 am - 5:00 pm CST)

**E-mail Address:** Abbott.SDS@abbott.com

#### **1.4 Emergency telephone number**

**Emergency Telephone:** CHEMTREC: 1(800) 424-9300 (in USA and Canada)  
or +1-703-527-3887 (international)

### **Section 2. Hazards identification**

#### **2.1 Classification of the substance or mixture**

**Regulation (EC) No 1272/2008**

**Specific target organ systemic toxicity (single exposure)** Category 3

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

**Risk Phrases:** R67 - Vapors may cause drowsiness and dizziness

#### **2.2 Label elements**

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

## Section 2. Hazards identification



**Signal Word:** Warning

**Hazard Statements:** H336 - May cause drowsiness or dizziness

**Precautionary Statements:** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3 Other hazards

Not determined

## Section 3. Composition/information on ingredients

Chemical Name	Percent	EINECS/ELINCS Number	EEC Classification	EU - GHS Substance Classification	REACH No.
Isoflurane 26675-46-7	100	247-897-7	R67	STOT SE 3 (H336)	No data available

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## Section 4. First aid measures

### 4.1 Description of first aid measures

**Eye Contact:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Skin Contact:** Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Inhalation:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Ingestion:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011  
**Protection of First-aiders:** Use personal protective equipment

#### **4.2 Most important symptoms and effects, both acute and delayed**

**Signs and Symptoms:** Clinical data suggests the following: headaches, incoordination, nausea, slow heart rate, sedation, sleep, drowsiness, dizziness, hyperthermia, vomiting, breathing difficulty. Very rare instances of allergic reactions.

**Medical Conditions Aggravated by Exposure:** Data suggest any pre-existing ailments in the following organs: central nervous system, cardiovascular system, gastrointestinal system, respiratory system. Hypersensitivity to the material and/or similar materials.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes To Physician:** Maintain ventilation, electrolyte balance and monitor cardiovascular function, as necessary.

### **Section 5. Firefighting measures**

#### **5.1 Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire

**Unsuitable Extinguishing Media:** Not determined

#### **5.2 Special hazards arising from the substance or mixture**

**Special Exposure Hazards:** Thermal decomposition products may include: Carbon oxides (COx) , Hydrogen Chloride (HCl). and Hydrogen fluoride

#### **5.3 Advice for firefighters**

**Protective Equipment and Precautions for Firefighters:** Wear self-contained breathing apparatus and protective suit

### **Section 6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Use personal protective equipment identified in Section 8.

#### **6.2. Environmental precautions**

**Environmental Precautions:** Contain material and prevent release to waterways or soil.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for Cleaning Up:** Clean up promptly. Absorb with suitable material. Ventilate and wash the spill area. Recover product and place in an appropriate container for disposal. Dispose of material as directed in Section 13. Wash spill area.

#### **6.4. Reference to other sections**

Refer to Sections 8, 12, and 13 for further information.

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

Store according to label instructions.

### 7.3. Specific end use(s)

**Recommended use:** General inhalation anaesthetic

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits:

Chemical Name	Abbott EEL	Skin Notation
Isoflurane 26675-46-7	60 ppm (450 mg/m <sup>3</sup> ) TWA	None

Chemical Name	ACGIH TLV	France	German MAK	Ireland	Italy
Isoflurane 26675-46-7				50 ppm (TWA) 380 mg/m <sup>3</sup> (TWA) 50 ppm (TWA)	

Chemical Name	The Netherlands	Spain	Switzerland	UK OEL/MEL
Isoflurane 26675-46-7		383 mg/m <sup>3</sup> (TWA)	77 mg/m <sup>3</sup> (TWA) 616 mg/m <sup>3</sup> (STEL)	150 ppm (STEL) 1149 mg/m <sup>3</sup> (STEL) 150 ppm (STEL) 50 ppm (TWA) 383 mg/m <sup>3</sup> (TWA)

### 8.2. Exposure controls

**Engineering Controls:** Anesthetic gas scavenging systems should be used during typical product application. Handle inside a process enclosure or chemical fume hood during manufacturing or laboratory use.

**Respiratory Protection:** If engineering controls are in place, respirators are generally not required during normal conditions of use.

**Eyes:** Eye protection not required during typical product use conditions. Wear eye protection appropriate to exposures during manufacturing/laboratory use.

**Gloves:** Impervious gloves.

**Other PPE Data:** Wear appropriate body coverings if contact may occur.

**Environmental Exposure Controls:** Not determined

**Product Name:**

**IsoFlo**

**Issued:**

**Dec-27-2011**

## **Section 9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Clear Colorless Liquid
<b>Odor:</b>	Mild, pungent, musty, ethereal odor.
<b>Odor Threshold:</b>	Not determined
<b>pH:</b>	Not determined.
<b>Boiling Pt. @ 760 mm Hg (°C):</b>	48.5
<b>Melting/Freezing Point (°C):</b>	Not determined
<b>Flash Point (°C):</b>	Not determined.
<b>Evaporation Rate at 20°C:</b>	Not determined.
<b>Flammability (Solid):</b>	Not expected to be flammable in air.
<b>Lower Explosive Limit:</b>	14.5 (in 100% oxygen)
<b>Upper Explosive Limit:</b>	Not determined.
<b>Vapor Pressure (mm Hg):</b>	295 - 330 at 25 deg. C
<b>Vapor Density (Air = 1):</b>	6.3
<b>Bulk Density at 20°C:</b>	1.45
<b>Specific Gravity:</b>	1.496 @ 25 deg C
<b>Solubility(ies):</b>	Soluble in: organic solvents. Slightly soluble in: water.
<b>Partition coefficient: n-octanol/water</b>	Not determined.
<b>Autoignition Temp. (°C):</b>	Not determined.
<b>Decomposition temperature (°C):</b>	Not Determined
<b>Viscosity (centipoise):</b>	Not determined.
<b>Explosion Severity:</b>	Not determined.
<b>Oxidizer Properties:</b>	Not determined.

### **9.2. Other information**

**Min. Ignition Energy-Cloud (mJ):** > 5000

## **Section 10. Stability and reactivity**

### **10.1. Reactivity**

Not determined

### **10.2. Chemical stability**

Stable under normal conditions

### **10.3. Possibility of hazardous reactions**

**Hazardous reactions:** None under normal processing

**Self-Heating Tendency:** No exotherms seen below 300 deg C in ARC testing.

### **10.4. Conditions to avoid**

Not determined.

### **10.5 Incompatible materials**

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

Strong bases, Alkaline metals.

#### **10.6 Hazardous decomposition products**

When heated to decomposition it emits:, Hydrogen fluoride, Hydrogen chloride, Carbon oxides

### **Section 11. Toxicological information**

#### **11.1. Information on toxicological effects**

**Routes of Exposure:**

**Oral:** Unlikely  
**Dermal:** Yes  
**Inhalation:** Clinical Route

**Acute Toxicity - Oral:** Data for component (s) given below.

Chemical Name	Acute Test	Value	Units	Species
Isoflurane 26675-46-7	LD50 =	4770 5080	mg/kg	Mice Rats

**Acute Toxicity - Dermal:** Not determined.

**Acute Toxicity - Inhalation:** Data for component (s) given below.

Chemical Name	Test	Value	Units	Species
Isoflurane 26675-46-7	LC 50 =	15,300 16,800	ppm	Rats Mice

**Corrosivity:** Not determined.

**Dermal Irritation:** Not determined.

**Eye Irritation:** Not determined.

**Sensitization:** Not determined.

**Toxicokinetics/Metabolism:** Not determined.

**Target Organ Effects:** May cause drowsiness or dizziness

**Reproductive Effects:** Not determined.

**Carcinogenicity:** Not determined.

**Mutagenicity:** Data for component (s) given below.

Chemical Name	Micronucleus Assay	Ames Test:	Mouse Lymphoma Assay	Chromosomal Abbr. Assay
Isoflurane 26675-46-7	No Data.	Negative	No Data.	Negative

**Aspiration hazard:** Not determined

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

**Notes:**

1. ALD: Approximate lethal dosage
2. LC50: Concentration in air that produces 50% mortality
3. LD50: Oral or dermal dosage that produces 50% mortality

## **Section 12. Ecological information**

### **12.1. Toxicity**

Not determined.

### **12.2. Persistence and degradability**

Not determined.

### **12.3. Bioaccumulative potential**

Not determined

### **12.4. Mobility in soil**

Not determined.

### **12.5. Results of PBT or vPvB assessment**

Chemical safety report is not required for this substance/product.

### **12.6. Other adverse effects**

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

**Notes:**

1. EC50: Concentration in water that produces 50% mortality in *Daphnia* sp.
2. LC50: Concentration in water that produces 50% mortality in fish.
3. EbC50/ErC50: Concentration in water that produces 50% inhibition of growth and in algae.

## **Section 13. Disposal considerations**

### **13.1 Waste treatment methods**

**Waste Disposal Methods:** Disposal should be made in accordance with country, federal, state and local regulations.

## **Section 14. Transport information**

### **ICAO/IATA**

**Status:** Regulated

- 14.1. UN Number:** UN3334
- 14.2. Proper shipping name:** Aviation regulated liquid, n.o.s. (1-Chloro-1-(difluoromethoxy)-2,2,2-trifluoroethane)
- 14.3. Hazard class:** 9
- 14.4. Packing group:** III
- 14.5. Environmental hazard:** Not applicable
- 14.6. Special Provisions:** A27

**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**ADR, DOT, IMDG/IMO**

**Status:** Not regulated

**14.1. UN Number:** Not applicable  
**14.2. Proper shipping name:** Not applicable  
**14.3. Hazard class:** Not applicable  
**14.4. Packing group:** Not applicable  
**14.5. Environmental hazard:** Not applicable  
**14.6. Special Provisions:** Not applicable

**Section 15. Regulatory Information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

Chemical Name	EINECS/ ELINCS	TSCA	DSL	NDSL	PICCS
Isoflurane 26675-46-7	247-897-7	-	-	Not listed.	-

Chemical Name	ENCS	ISHL	IECSC	AICS	KECL	New Zealand
Isoflurane 26675-46-7	-	-	-	-	-	HSR003785

**Legend**

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**ISHL** - Japan Industrial Safety and Health Law

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**Carcinogenicity Rating:**

Chemical Name	Percent	NTP:	IARC:	ACGIH:
Isoflurane	100	Not Listed	Not Listed	Not Listed

**SARA 313 Information**

Chemical Name	Percent	SARA 313 Chemical:	CERCLA RQ/SARA EHS RQ (lbs):	SARA EHS TPQ (lbs):
Isoflurane	100	No	Not Applicable	Not applicable

**Immediate Health:** Yes  
**Delayed Health:** No  
**Fire:** No  
**Sudden Pressure:** No  
**Reactivity:** No



**Product Name:** IsoFlo  
**Issued:** Dec-27-2011

**Proposition 65 Status:** Does not contain chemicals known to the state of California to cause cancer or reproductive harm.

**WHMIS Hazard Class:** Not determined.

**NFPA Rating:**  
Health: 2  
Fire: 1  
Reactivity: 0

**Notes:**

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substances Control Act.
5. EC = European Community.
6. WHMIS = Canadian Workplace Hazardous Materials Information System.
7. UN GHS = United Nations Globally Harmonized System for Hazard Identification.

**15.2. Chemical safety assessment**

Chemical safety assessment has not been conducted on the substance/product.

<b>Section 16. Other information</b>
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**Risk Phrases:** R67 - Vapors may cause drowsiness and dizziness

**Document Authored By:** Global Occupational Toxicology (D-03QC)

**Issued:** Dec-27-2011

**Supersedes the SDS dated:** Jan-23-2009

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