



# Frusemide Injection BP

## MATERIAL SAFETY DATA SHEET

Page 1 of 4 - Date of Issue: 10 December 2009

**IMPORTANT NOTICE** This Material Safety Data Sheet (MSDS) is prepared by CSL Limited in accordance with the Australian National Occupational Health & Safety Commission National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011(2003)]. The information contained herein must not be altered or deleted. Additional information may be appended to the MSDS, but it must be marked clearly to indicate that it is not part of the original.

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Frusemide Injection BP (80mg per 8mL injection)

**Other Names** Furosemide Injection

**Manufacturer's Product Code** 0170 0053 8mL

**Use** Frusemide injection is indicated for the treatment of oedema associated with congestive heart failure, cirrhosis of the liver and renal disease, including the nephrotic syndrome, and as adjunctive therapy in acute pulmonary oedema and cerebral oedema.

**Supplier Name** CSL Limited (ABN 99 051 588 348)

**Address** 45 Poplar Road, Parkville, Victoria 3052, Australia

**Telephone** +61 03 9389 1911

**Emergency Telephone** 03 9389 1984 (24hr)

### 2. HAZARDS IDENTIFICATION

**Not classified as hazardous according to the criteria of NOHSC  
Not classified as a dangerous good by the criteria of the ADG Code**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name:</i>	<i>CAS Number:</i>	<i>Proportion:</i>
Frusemide (Furosemide)	54-31-9	100mg per 10mL
Sodium hydroxide	1310-73-2	<0.01%
Sodium chloride	7647-14-5	<1%
Water for injection	-	Up to 100%

### 4. FIRST AID MEASURES

**Accidental Injection** Seek medical attention. Severe allergic reactions will usually occur within the first few hours of exposure. The sooner the onset of an allergic reaction, the more severe the reaction.

**Eye** Flush eye thoroughly with water for at least 15 minutes. If irritation occurs, seek medical attention.

**Swallowed** DO NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek medical attention.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water.

**Aggravated Medical Conditions** Hypersensitivity to furosemide (frusemide), sulfonamides or any of the inactive ingredients.

**Advice To Doctor** See product information leaflet for information regarding pre-existing conditions.

No specific antidote to furosemide (frusemide) is known. Treatment of overdosage is supportive and consists of replacement of excessive fluid and electrolyte losses.

Refer to product information leaflet for more information.

---

## 5. FIRE FIGHTING MEASURES

**Fire/Explosion Hazard** Toxic gases may be emitted from fires involving large quantities of this product and its packaging, therefore self-contained breathing apparatus and full protective equipment are recommended for fire fighters. Where possible contain and collect fire-fighting run-off for later disposal.

**Fire Extinguishing Media** No restrictions.

**Hazchem Code** None allocated.

---

## 6. ACCIDENTAL RELEASE MEASURES

**Minor Spills**

- Wear protective gloves and safety glasses.
- Clean up spill immediately using absorbent paper towels.
- Place spilled material in clean, dry, sealed container for disposal.
- Place syringe in a secure sharps container.
- Wash area with water and detergent.

**Major Spills**

- Wear protective gloves and safety glasses.
- Contain and absorb spills using earth, sand or inert absorbent.
- Collect residues and seal in labelled drums for disposal.
- Place syringes in a secure sharps container.
- Wash area with water and detergent.

---

## 7. HANDLING AND STORAGE

- Store below 25°C
- Protect from light

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Standards** No exposure limits set by NOHSC or ACGIH

**Engineering Controls** None under normal operating conditions.

**Personal Protection** For good infection control, gloves should be worn when administering an injection.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information, consult your Occupational Health and Safety Adviser.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Clear colourless liquid in a pre-filled MIN-I-JET syringe (with luer-jet).

**Odour** Odourless

**pH** 8-9.3

**Boiling Point/Melting Point** Not determined

**Vapour Pressure** Not determined

**Vapour Density** Not determined

**Specific Gravity** Not determined

**Flashpoint** Not determined

**Flammability Limits** Not determined

**Solubility in Water** Aqueous solution.

---

## 10. STABILITY AND REACTIVITY

**Reactivity** Not known to be incompatible with other materials.

**Stability** Stable under anticipated storage and handling conditions (refer section 7).

**Decomposition Products** Not determined

---

## 11. TOXICOLOGICAL INFORMATION

**Accidental Injection** Causes diuresis (an increased excretion of urine).

Furosemide (Frusemide) has a rapid onset of action. Following intravenous administration, diuresis occurs within 5 minutes, is longer following intramuscular administration, peaks within 30 minutes, and lasts approximately 2 hours.

Severe allergic reactions will usually occur within the first few hours of exposure. The sooner the onset of an allergic reaction, the more severe the reaction.

**Eye** May cause irritation.

**Swallowed** May cause gastro-intestinal upset, muscle weakness or thirst.

**Skin** No acute health effects expected.

**Inhaled** Not an expected route of exposure.

**Chronic Health Effects** No chronic health effects known.

---

## 12. ECOLOGICAL INFORMATION

- No data available.
- For good environmental practice avoid discharge to waterways.

---

## 13. DISPOSAL CONSIDERATIONS

- In accordance with state land and waste management authority.
- Dispose via a licensed waste facility.

---

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	None allocated
<b>DG Class</b>	None allocated
<b>Subsidiary Risk</b>	None allocated
<b>Packing Group</b>	None allocated
<b>Hazchem Code</b>	None allocated

---

## 15. REGULATORY INFORMATION

**Poisons Schedule Number** Schedule 4 (S4) – Prescription only medicine

---

## 16. OTHER INFORMATION

**Last Revised** 10 December 2009

**Reason for Revision** – Reissue of MSDS.

**Abbreviations**

NOHSC	–	National Occupational Health and Safety Commission (please note NOHSC information can be sourced from <a href="http://www.ascc.gov.au">www.ascc.gov.au</a> )
ACGIH	–	American Conference of Governmental Industrial Hygienists
ADG Code	–	Australian Dangerous Goods Code
UN Number	–	United Nations Number
DG Class	–	Dangerous Goods Class
CAS Number	–	Chemical Abstract Service Number

**Contact Point**

Company Contact:	+61 3 9389 1984 (24hr)
Australian Poisons Information Centre, 24 hour service:	13 11 26
Australian Police, Fire Brigade or Ambulance:	000

New Zealand Poisons Information Centre, 24 hour service:	(03) 4747 000
New Zealand Police, Fire Brigade or Ambulance:	111

---

Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and omissions. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage by any person acting or refraining from action as a result of this information.