

## **MATERIAL SAFETY DATA SHEET**

*Prepared according to 1907/2006/EC*

Version 1.0

Revision Date: 10/20/2011

### **Injectin**

### ***In Vivo* SiRNA Delivery Kit**

**Product Number: IJ**

#### **Kit components:**

<b>Description</b>	<b>Symbol</b>
Injectin <i>In Vivo</i> SiRNA Delivery Reagent	/
Sterile 25 % Glucose buffer	/

## MATERIAL SAFETY DATA SHEET

Prepared according to 1907/2006/EC

Version 1.0  
Revision Date 10/20/11

### 1. PRODUCT AND COMPANY IDENTIFICATION

- **Product name :** Injectin *In Vivo* SiRNA Delivery Reagent
- **Product numbers :** IJ100/ IJ500
- **Application of the substance / the preparation:** Laboratory chemicals
- **Company:** BioCellChallenge SAS  
Parc d'Activités de Signes  
Avenue de Paris - BP 90778  
83030 TOULON CEDEX 9  
FRANCE  
Telephone: +33 4 94 90 36 97 / Fax: +33 9 72 12 16 50  
E-mail address: [contact@biocellchallenge.com](mailto:contact@biocellchallenge.com)  
[www.biocellchallenge.com](http://www.biocellchallenge.com)
- **Emergency Phone:** +33 1 45 42 59 59 (I.N.R.S.)

### 2. HAZARDS IDENTIFICATION

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

- **Description:** solution, consisting of the following ingredients.

Ingredients	CAS number	EINECS	concentration
Water	7732-18-5	231-791-2	> 90%
Other ingredients			< 10%

- Other ingredients: ingredients not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

#### 4. FIRST AID MEASURES

- **If inhaled:**  
Remove to fresh air. If breathing becomes difficult, call a physician.
  - **In case of skin contact:**  
Immediately wash skin with soap and copious amounts of water.
  - **In case of eye contact:**  
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
  - **If swallowed:**  
Never give anything by mouth to an unconscious person. Wash out mouth with water provided person is conscious.
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#### 5. FIRE-FIGHTING MEASURES

- **Flammable properties:**
    - Flash point: not available.
    - Ignition temperature: not available.
  - **Suitable extinguishing media:**  
Use carbon dioxide, dry chemical powder, or appropriate foam.
  - **Special protective equipment for fire fighters:**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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#### 6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Not required.
  - **Environmental precautions:** Dilute with plenty of water.
  - **Measures for cleaning up:**  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.
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#### 7. HANDLING AND STORAGE

- **Handling:** Avoid breathing vapors or spray mists.
  - **Storage:** Keep container tightly closed at 2-8°C.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The product does not contain substances with occupational exposure limit values.

- **Personal protective equipment:**
  - **Respiratory protection:** Respiratory protection is not required.
  - **Protection of body :** Lab coat and gloves.
  - **Eye protection:** Safety glasses.
  - **General hygiene measures:** Follow good laboratory practices when handling this material.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**
  - **Form:** Solution.
  - **colour:** Colourless.
  - **odour:** Odourless.
- **pH:** Not available.
- **Melting Point:** Not available.
- **Boiling Point:** Not available.
- **Flash Point:** Not available.
- **Ignition Temperature:** Not available.
- **Lower Explosion Limit:** Not available.
- **Upper Explosion Limit:** Not available.
- **Density:** Not available.
- **Water Solubility / Miscibility:** Fully miscible.

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## 10. STABILITY AND REACTIVITY

- **Storage stability:** Stable under recommended storage conditions.
- **Condition to avoid:** No decomposition if used according to specifications.
- **Materials to avoid:** Strong oxidizing agents.
- **Hazardous polymerization:** Will not occur.
- **Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions: carbone oxides.

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## 11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** No data available.
- **Irritation:** No irritating effect known.
- **Sensitization :** No Sensitizing effects known.
- **Chronic exposure:** No ingredient of this product is identified as probable, possible or confirmed human carcinogen by IARC, by ACGIH, by NTP, by OSHA.

- **Route of exposure:**
    - **Skin Contact:** May cause skin irritation.
    - **Skin Absorption:** May be harmful if absorbed through the skin.
    - **Eye Contact:** May cause eye irritation.
    - **Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
    - **Ingestion:** May be harmful if swallowed.
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## 12. ECOLOGICAL INFORMATION

- **Elimination information (persistence and degradability):** No data available.
  - **Ecotoxicity effects:** No data available.
  - **Further information on ecology:** No data available.
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## 13. DISPOSAL CONSIDERATIONS

- **Product:**

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.
  - **Contaminated packaging:**

Disposal must be made according to official regulations.
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## 14. TRANSPORT INFORMATION

- **RID/ADR:** Non-hazardous for road transport.
  - **IMDG:** Non-hazardous for sea transport.
  - **IATA:** Non-hazardous for air transport.
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## 15. REGULATORY INFORMATION

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives.
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## 16. OTHER INFORMATION

- **Warranty:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our

knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioCellChallenge SAS shall not be held liable for any damage resulting from handling or from contact with the above product.

- **Disclaimer:** For R&D use only. Not for drug, household or other uses.
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## MATERIAL SAFETY DATA SHEET

Prepared according to 1907/2006/EC

Version 1.0  
Revision Date: 10/20/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

- **Product name :** Glucose sterile solution, 25 % (w/v) in water
- **Product numbers :** /
- **Application of the substance / the preparation:** Laboratory chemicals
- **Company:** BioCellChallenge SAS  
Parc d'Activités de Signes  
Avenue de Paris - BP 90778  
83030 TOULON CEDEX 9 - FRANCE  
Telephone: +33 4 94 90 36 97 / Fax: +33 9 72 12 16 50  
E-mail: [contact@biocellchallenge.com](mailto:contact@biocellchallenge.com)  
[www.biocellchallenge.com](http://www.biocellchallenge.com)
- **Emergency Phone:** +33 1 45 42 59 59 (I.N.R.S.)

### 2. HAZARDS IDENTIFICATION

- **Classification of the substance or mixture:**  
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.
- **Label elements:**  
The product does not need to be labelled in accordance with EC directives or respective national laws.
- **Other hazards:** none

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

- **Description:** solution, consisting of the following ingredients.

Ingredients	CAS number	EINECS	Classification	Concentration
Water	7732-18-5	231-791-2	/	75 %
Glucose	50-99-7	200-075-1	/	25 %

#### 4. FIRST AID MEASURES

- **Description of first aid measures**
    - **General advice**  
Consult a physician. Show this safety data sheet to the doctor in attendance.
    - **If inhaled**  
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
    - **In case of skin contact**  
Wash off with soap and plenty of water. Consult a physician.
    - **In case of eye contact**  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
    - **If swallowed**  
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
  
  - **Most important symptoms and effects, both acute and delayed**  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
  
  - **Indication of any immediate medical attention and special treatment needed**  
No data available.
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#### 5. FIRE-FIGHTING MEASURES

- **Extinguishing media:**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
  
  - **Special hazards arising from the substance or mixture:**  
Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium/sodium oxides, Hydrogen chloride gas.
  
  - **Advice for firefighters:**  
Wear self contained breathing apparatus for fire fighting if necessary.
  
  - **Further information:**                      No data available.
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#### 6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
  
- **Environmental precautions:**  
Do not let product enter drains.
  
- **Methods and materials for containment and cleaning up:**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

- **Reference to other sections:**  
For disposal see section 13.

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## 7. HANDLING AND STORAGE

- **Precautions for safe handling:**  
Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities:**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Specific end uses:** No data available.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters**  
Components with workplace control parameters.
- **Exposure controls**
  - **Appropriate engineering controls:**  
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
  - **Personal protective equipment**
    - **Eye/face protection:**  
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
    - **Skin protection:**  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
    - **Body Protection:**  
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
    - **Respiratory protection:**  
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

• <b>Form:</b>	liquid
• <b>Colour:</b>	Colourless.
• <b>Odour:</b>	Odourless.
• <b>Odour Threshold:</b>	Not available
• <b>pH (25°C):</b>	6.0 – 8.0
• <b>Melting point/freezing point:</b>	Not available
• <b>Initial boiling point and boiling range:</b>	Not available
• <b>Flash point:</b>	Not available
• <b>Evaporation rate:</b>	Not available
• <b>Flammability (solid, gas):</b>	Not available
• <b>Upper/lower flammability or explosive limits:</b>	Not available
• <b>Vapour pressure:</b>	Not available
• <b>Vapour density:</b>	Not available
• <b>Relative density:</b>	1.070 g/cm <sup>3</sup>
• <b>Water solubility:</b>	completely miscible
• <b>Partition coefficient: octanol/water:</b>	Not available
• <b>Autoignition temperature:</b>	Not available
• <b>Decomposition temperature:</b>	Not available
• <b>Viscosity:</b>	Not available
• <b>Explosive properties:</b>	Not available
• <b>Oxidizing properties:</b>	Not available

## 10. STABILITY AND REACTIVITY

• <b>Reactivity:</b>	No data available.
• <b>Chemical stability:</b>	No data available.
• <b>Possibility of hazardous reactions:</b>	No data available.
• <b>Conditions to avoid:</b>	No data available.
• <b>Incompatible materials:</b>	Strong oxidizing agents.
• <b>Hazardous decomposition products:</b>	Other decomposition products - No data available.

## 11. TOXICOLOGICAL INFORMATION

• <b>Acute toxicity:</b>	No data available.
• <b>Skin corrosion/irritation:</b>	No data available.
• <b>Serious eye damage/eye irritation:</b>	No data available.
• <b>Respiratory or skin sensitization:</b>	No data available.
• <b>Germ cell mutagenicity:</b>	No data available.

- **Carcinogenicity:**  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **Reproductive toxicity:** No data available.
- **Specific target organ toxicity - single exposure:** No data available.
- **Specific target organ toxicity - repeated exposure:** No data available.
- **Aspiration hazard:** No data available.
- **Potential health effects**
  - **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
  - **Ingestion:** May be harmful if swallowed.
  - **Skin:** May be harmful if absorbed through skin. May cause skin irritation.
  - **Eyes:** Causes eye burns.
- **Signs and Symptoms of Exposure:**  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- **Additional Information:** RTECS: Not available.

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## 12. ECOLOGICAL INFORMATION

- **Toxicity:** No data available.
- **Persistence and degradability:** No data available.
- **Bioaccumulative potential:** No data available.
- **Mobility in soil:** No data available.
- **Results of PBT and vPvB assessment:** No data available.
- **Other adverse effects:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

- **Waste treatment methods:**
  - **Product:**  
Offer surplus and non-recyclable solutions to a licensed disposal company.
  - **Contaminated packaging:**  
Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

- **ADR/RID:** Not dangerous goods.
- **IMDG:** Not dangerous goods.
- **IATA:** Not dangerous goods.

## 15. TRANSPORT INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:** No data available.
  - **Chemical Safety Assessment:** No data available.
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## 16. OTHER INFORMATION

- **Warranty:**  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioCellChallenge SAS shall not be held liable for any damage resulting from handling or from contact with the above product.
  - **Disclaimer:**  
For R&D use only. Not for drug, household or other uses.
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