

# Material Safety Data Sheet

STEMcircles™ LGNSO

Cat. No: 05820

## 1 Product and Company Identification

- 1.1 Product Name:** STEMcircles™ LGNSO
- 1.2 Catalog Number:** 05820
- 1.3 Synonyms:** Not Available
- 1.4 Product Use:** Non-viral, non-integrating DNA minicircle for reprogramming
- 1.5 Manufacturer/Supplier:** StemCell Technologies Inc.  
Suite 400, 570 West 7<sup>th</sup> Avenue  
Vancouver, BC V5Z 1B3  
Canada
- 1.6 In Case of Emergency Call:** 604-877-0713
- 1.7 Date Effective:** June 23, 2010
- 1.8 Prepared By:** Quality Control

## 2 Composition / Information on Ingredients

2.1 Component	CAS No.	%W/W
Plasmid DNA	Not Available	1.0 mg/mL

## 3 Hazards Identification

- 3.1 Emergency Overview:** This product is a potential irritant to eyes, respiratory system, and skin. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined.
- 3.2 Routes of Exposure:** Absorbed through skin, eye contact, inhalation, and ingestion.
- 3.3 Potential Health Effects:**
- 3.3.1 Eye:** May cause eye irritation.
  - 3.3.2 Skin:** May cause skin irritation.
  - 3.3.3 Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
  - 3.3.4 Ingestion:** May be harmful if swallowed.
- 3.4 Chronic Effects/Carcinogenicity:** Not Available.
- 3.5 OSHA Regulatory Status:** Not Available.

## 4 First Aid Measures

- 4.1 Eyes:** In case of contact with eyes, flush thoroughly with water. Call a physician.
- 4.2 Skin:** In case of contact with skin, wash the affected area with soap and copious amounts of water for at least 15 minutes. Should irritation occur, contact a physician.
- 4.3 Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- 4.4 Inhalation:** If inhaled, remove person to fresh air. If breathing becomes difficult, call a physician.
- 4.5 Puncture Wounds:** Wash thoroughly with soap and water. Allow to bleed freely. Call a physician.

# Material Safety Data Sheet

STEMcircles™ LGNSO

Cat. No: 05820

---

4.6 **Note to Physician:** Not Applicable.

---

## 5 Fire Fighting Measures

- 5.1 **Flash Point/Method:** Not Available.
- 5.2 **Explosive Limits:**
- 5.2.1 **Upper:** Not Available.
  - 5.2.2 **Lower:** Not Available.
- 5.3 **Autoignition Temperature:** Not Available.
- 5.4 **Hazardous Combustion Products:** Not Available.
- 5.5 **Conditions of Flammability:** Not Available.
- 5.6 **Extinguishing Media:** Water spray, dry chemical powder, or appropriate foam.
- 5.7 **Fire Fighting Procedures:** Wear self contained breathing apparatus if necessary.
- 5.8 **Explosion Data:**
- 5.8.1 **Sensitivity to Mechanical Impact:** Not Available.
  - 5.8.2 **Sensitivity to Static Discharge:** Not Available.
- 

## 6 Accidental Release Measures

- 6.1 **Leak and Spill Procedure:** Wear personal protective equipment. Absorb spill and place in closed container for disposal. Ventilate and wash area thoroughly after clean-up is complete.
- 

## 7 Handling and Storage

- 7.1 **Handling:** Should be handled by trained personnel observing good laboratory practices. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. May cause allergic reaction in sensitized individuals.
- 7.2 **Storage:** Store at -20°C.
- 

## 8 Exposure Controls/Personal Protection

- 8.1 **Engineering Controls:** Mechanical exhaust required.
- 8.2 **Personal Protective Equipment:**
- 8.2.1 **Respiratory Protection:** None needed
  - 8.2.2 **Eye Protection:** Safety glasses.
  - 8.2.3 **Skin Protection:** Lab coat, latex gloves.
- 8.3 **General Hygiene Considerations:** Wash hands after use.
- 8.4 **Exposure Limits:** Not Available.
- 8.4.1 **ACGIH TLV-TWA:** Not Available.
  - 8.4.2 **OSHA PEL-TWA:** Not Available.
-

# Material Safety Data Sheet

STEMcircles™ LGNSO

Cat. No: 05820

---

## 9 Physical/Chemical Properties:

9.1 Appearance:	Clear liquid
9.2 Odor:	Odorless
9.3 Physical State:	Liquid
9.4 pH:	7.2 – 7.8
9.5 Boiling Point:	100°C
9.6 Melting Point:	0°C
9.7 Freezing Point:	Not Available.
9.8 Vapor Pressure:	Not Available.
9.9 Vapor Density:	Not Available.
9.10 Specific Gravity:	Not Available.
9.11 Evaporation Rate:	Not Available.
9.12 Solubility in Water:	Soluble
9.13 Odor Threshold:	Not Applicable.
9.14 Coefficient of Water/Oil Distribution:	Not Available.

---

## 10 Stability/Reactivity:

10.1 Chemical Stability:	Stable
10.2 Conditions to Avoid:	Not Available.
10.3 Incompatibility (Material to Avoid):	Strong oxidizing agents.
10.4 Hazardous Decomposition/By-Products:	Nature of decomposition products is not hazardous.
10.5 Hazardous Polymerization:	Will not occur.

---

## 11 Toxicological Information

11.1 Effects of Short-Term Exposure:	Not Available.
11.2 Effects of Long-Term Exposure:	Not Available.
11.3 Irritancy of Product:	Not Available.
11.4 Sensitization to Product:	Not Available.
11.5 Carcinogenicity:	Not Available.
11.6 Reproductive Toxicity:	Not Available.
11.7 Teratogenicity and Embryotoxicity:	Not Available.
11.8 Mutagenicity:	Not Available.
11.9 Name of Toxicologically Synergistic Products:	Not Available.
11.10 LD50 (specify species and route):	Not Available.
11.11 LC50 (specify species):	Not Available.

# Material Safety Data Sheet

STEMcircles™ LGNSO

Cat. No: 05820

---

## 12 Ecological Information

12.1 Not Available.

---

## 13 Disposal Considerations

**13.1 Waste Disposal Method:** Disposal should be in accordance with existing practices at your institution. Observe all Federal, Provincial, and Local Laws.

---

## 14 Transport Information

### 14.1 Transport Canada

14.1.1 **PIN No.:** Not Available.

### 14.2 U.S. Department of Transportation:

14.2.1 **Proper Shipping Name:** Not Available.

14.2.2 **Hazard Class:** This substance is not known to be hazardous for transport.

14.2.3 **ID. Number:** Not Available.

14.2.4 **Packing Group:** Not Available.

14.2.5 **Label Statement:** Not Available.

---

## 15 Regulatory Information

15.1 **WHMIS Classification:** Not Applicable

15.2 **Note:** This MSDS was prepared according to the Canadian Controlled Products Regulation and contains all of the information required by those regulations.

---

## 16 Other Information

16.1 **Preparation Information:** Refer to PIS No. 05820

16.2 **This MSDS has been revised in the following section(s):** Not Applicable.

16.3 **Original Issue Date:** June 23, 2010.

16.4 **Notice:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StemCell Technologies Inc., shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 1.7 of this document and may be subject to ammendment by StemCell Technologies Inc.

16.5 **Disclaimer:** **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT USED FOR DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.**