

SAFETY DATA SHEET:

StemRNA™ Human iPSCs



1. IDENTIFICATION

- | | |
|----------------------------|---|
| 1.1. Product name | StemRNA Human iPSC |
| 1.2. Catalog number | RCRP004N; RCRP005N; RCRP006N; RCRP007N; RCRP008N;
RCRP009N; RCRP010N; RCRP011N; RCRP012N; RCRP013P;
RCRP014P; RCRP015P; RCRP031N; RCRP032N; RCRP036N;
RCRP037N; RCRP047N; RCRP051; RCRP052; RCRP053 |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications |
| 1.4. Manufacturer/Supplier | REPROCELL USA
9000 Virginia Manor Road
Beltsville, MD 20705
301-470-3362 |
| 1.5. In case of emergency | <ul style="list-style-type: none">• For medical emergencies, contact your local emergency center.• For transportation emergencies, contact your local transportation authorities.• For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday. |

2. HAZARDS IDENTIFICATION

- | | |
|--|-----------------|
| 2.1. GHS classification according to Annex II | Non hazardous |
| 2.2. Signal word | Not classified |
| 2.3. Symbol | Not Classified |
| 2.4. Hazard statement(s) | Not applicable. |
| 2.5. Precautionary statement(s) | Not applicable |
| 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS | Not classified |

3. COMPOSITION / INFORMATION ON INGREDIENTS

- | | |
|-------------------|--------------------|
| 3.1 Chemical name | Dimethyl Sulfoxide |
| 3.2 Synonyms | DMSO |
| 3.3 CAS number | 67-68-5 |
| 3.4 Weight % | <15% |

4. FIRST AID MEASURES

- | | |
|--|---|
| 4.1 First aid instructions | |
| <ul style="list-style-type: none">• General advice | Move out of exposure area. Consult a physician if symptoms persist. |



- Eyes Check for and remove contact lenses immediately. Flush thoroughly with water for at least 15 minutes. Call a physician.
- Skin Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician if irritation develops and persists.
- Ingestion If swallowed, wash mouth out with water provided the victim is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
- Inhalation If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
- Puncture wounds Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician

4.2 Most important symptoms/effects, acute and immediate No further information available.

4.3 Indications of immediate medical attention and special treatment needed No data available. Treat symptomatically.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media Use extinguishing measures that are appropriate to the surrounding environment.
- 5.2 Specific hazards arising from the chemical Carbon oxides, sulfur oxides
- 5.3 Special protective equipment and precautions for firefighters Wear self-contained breathing apparatus and full turnout gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment (Section 8). Avoid contact with skin, eyes, or clothing.
- 6.2 Environmental precautions Prevent further spillage or leakage if safe to do so. Do not let product enter drains.
- 6.3 Methods and materials for containment and clean up Exercise appropriate precautions to minimize direct contact with skin or. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Clean contaminates surface thoroughly. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
- Follow biological safety precautions according to local regulations (e.g. OSHA 29 CFR 1910.1030)



7.2. Conditions for safe storage, including any incompatibilities

- Follow liquid nitrogen storage rules according to local regulations (e.g. OSHA 49 CFR 173.316).

Store properly labelled at <-130 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- AIHA Workplace Environmental Exposure Levels (WEEL): 250 ppm TWA.

8.2 Appropriate engineering controls

No further data beyond Section 7.

8.3 Protection measures and personal protective equipment

Handle in accordance with good biological safety practices. Wash thoroughly after handling. Do not eat, drink or smoke while using the product.

- Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required.

- Eye protection

Safety goggles.

- Skin protection

Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Appearance

Frozen Red Liquid

9.2 Odor

Characteristic

9.3 Odor threshold

No data available

9.4 pH

No data available.

9.5 Melting point / freezing point

No data available.

9.6 Initial boiling point and boiling range

No data available.

9.7 Flash point

>110 °C (>230 °F)

9.8 Evaporation rate

No data available.

9.9 Flammability (solid, gas)

No data available.

9.10 Upper/lower flammability or explosive limits

No data available.

9.11 Vapor pressure

No data available.

9.12 Vapor density

No data available.

9.13 Relative density

No data available.

9.14 Solubility(ies)

Fully miscible in water

9.15 Partition coefficient: n-octanol/water

No data available.

9.16 Auto-ignition temperature

No data available.

9.17 Decomposition temperature

No data available.

9.18 Viscosity

No data available.

9.19 Explosive properties

No data available.

9.20 Oxidizing properties

No data available.



10. STABILITY/REACTIVITY

10.1 Reactivity	No data available.
10.2 Chemical stability	This product is stable under recommended storage conditions.
10.3 Possible of hazardous reactions	None under normal processing.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong oxidizing agents, strong acids, strong bases, acid chlorides.
10.6 Hazardous decomposition products	No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological effects	No data available.
• Acute toxicity	No data available.
• Skin corrosion / irritation	No data available.
• Serious eye damage / eye irritation	No data available.
• Respiratory or skin sensitization	No data available.
• Germ cell mutagenicity	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. • ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen. • NTP: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen. • OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
• 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.
11.2 Symptoms related to the physical, chemical and toxicological characteristics	No data available
11.3 Effects of short term exposure.	No data available.
11.4 Effects of long term exposure	No data available.
11.5 Numerical measures of toxicity	No data available.
11.6 Other information	None



12. ECOLOGICAL INFORMATION

12.1 Toxicity	Dimethyl sulfoxide: <i>Pimephales promelas</i> : LD50: 34000 mg/L at 96 h.
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	Not applicable.
12.6 Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal method	Unused product and waste must be disposed of in accordance with federal, state, and local environmental control regulations.
13.2 Personal safety	Refer to section 8.

14. TRANSPORT INFORMATION

• DOT (US)	Not regulated
• IMDG	Not regulated
• IMDG	Not regulated
• IATA	Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations	
• SARA 313 components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
• SARA 302 components	Does not contain any components subject to reporting.
• SARA 311/312 Hazards	Does not contain any components subject to reporting.
• Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)	Does not contain any components subject to reporting.
U.S. State Regulations	
• California Proposition 65	Does not contain any components subject to reporting.
• Massachusetts Right to Know Components	Does not contain any components subject to reporting.
• Pennsylvania Right to Know Components	Does not contain any components subject to reporting.
• New Jersey Right to Know Components	Does not contain any components subject to reporting.
WHMIS Hazard Class	Not controlled under WHMIS (Canada).



Regulation (EC) No 1272/.2008 (EU-GHS/CLP)	Not hazardous
Directive 67/548/EC & Directive 1999/45/EC	Not hazardous
Regulatory information statement	This SDS was prepared in accordance with Regulation (EC) No. 1272/2008 and European Directive 67/548/EEC as amended.

16. OTHER INFORMATION

Notice

The information in this Safety Data Sheet is believed to be correct at the date of publication, but it 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.

REPROCELL, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See REPROCELL, Inc. website for terms and conditions of sale.

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1.0

Prepared By

Quality Control

END OF SAFETY DATA SHEET

