SAFETY DATA SHEET:
Stemgent® NM-RNA Products

1. IDENTIFICATION
1.1. Product Name
This data sheet contains safety information for Stemgent® NM-RNA products.

1.2. Catalog Number
05-0040, 05-0041, 05-0042

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
• 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
Not a hazardous substance or mixture.

2.2. Signal Word
Not applicable.

2.3. Symbol
Not applicable.

2.4. Hazard Statement(s)
Not applicable.

2.5. Precautionary Statement(s)
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Chemical name
Stemgent NM-RNA

3.2 Synonyms
Not applicable

3.3 Chemical formula
Not applicable

3.4 Molecular weight
Not applicable

3.5 CAS number
Not applicable

4. FIRST AID MEASURES
4.1 First aid instructions
• General advice
Move out of exposure area. Consult a physician.

• 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.
• 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.

4.2 Most important symptoms/effects, acute and immediate

Described in section 2.

4.3 Indications of immediate medical attention and special treatment needed

No data available.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical

Carbon oxides, nitrogen oxides, hydrogen chloride gas

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 direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and clean up

Keep in suitable, closed containers for disposal. Use absorbent, non-reactive material to contain liquid spill. Dispose of absorbent material used to clean spills in accordance with federal, state, and local environmental control regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

• Avoid inhalation, contact with eyes, skin, and clothing.
• Wear gloves when handling product
• Keep in well ventilated area
• For other precautions see section 2.5.

7.2. Conditions for safe storage, including any incompatibilities

Store at –70°C. Use RNAse free reagents, tubes, and barrier pipette tips. Avoid multiple freeze-thaw cycles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No known occupational exposure limits.

8.2 Appropriate engineering controls

Safety shower and eye wash. Mechanical exhaust required.

8.3 Protection measures and personal protective equipment

Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

• 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. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) particle respirator.

- Eye protection
  Chemical safety goggles.
- Skin protection
  Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Appearance Frozen liquid
9.2 Odor No data available.
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 No data available.
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) No data available.
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 No data available.
10.4 Conditions to avoid No data available.
10.5 Incompatible materials No data available.
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
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
  No data available.
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
  No data available.
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

This product is considered non-hazardous for transport.

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
• SARA 311/312 Hazards
• Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)
  Does not contain any components subject to reporting.
  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
Regulation (EC) No 1272/.2008 (EU-GHS/CLP)
  Not controlled under WHMIS (Canada).
  Not hazardous

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

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Prepared By
Quality Control

END OF SAFETY DATA SHEET