



SAFETY DATA SHEET

Product Name: miR-Direct®

Date prepared: Dec 2018

1. Company and Product Identification

Component name: Circularization Reaction Mix

Company name & address:

SomaGenics, Inc.

2161 Delaware Avenue, Suite E

Santa Cruz, CA 95060

Telephone: 831-426-7700

2. Hazards Identification

Not a hazardous substance or mixture. This product contains no substances, which at the given concentrations, are considered to be hazardous to health.

3. Composition/Information on Ingredients

Chemical Type: Mixture.

CAS-#s: Tris Acetate, CAS # 6850-28-8

Potassium Acetate, CAS # 127-08-2

Magnesium Chloride, CAS #: 7786-30-3

Betaine, CAS #: 590-46-5

Dithiothreitol, CAS #: 3483-12-3

Magnesium Chloride, CAS #: CAS 7791-18-6

Proprietary: Yes.

4. First Aid Measures

Inhalation: Move to fresh air.

Skin contact: Wash off with soap and water.

Eye contact: Flush eyes with water.

Ingestion: Clean mouth with water and drink plenty of water after incident.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available

Note to physicians: Treat symptomatically.

5. Fire Fighting Measures

Fire is possible at elevated temperatures or by contact with an ignition source.

Suitable extinguishing media: Use extinguishing measures appropriate to the surrounding environment (water spray, alcohol-resistant foam, dry chemical or carbon dioxide).

Unsuitable extinguishing media: No information available.

Protective equipment and precautions for firefighters: Wear self-contained breathing apparatus if necessary.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation; avoid breathing vapors and skin contact. Wear lab-appropriate personal protection [PPE]. The product contains no substances, which at the indicated concentration, are considered to be hazardous to health.

Environmental precautions: Prevent leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Any release to the environment may be subject to federal/national or local reporting requirements.

Methods and material for containment and cleaning up: Soak up with inert absorbent and keep in suitable, closed container for further disposal.

7. Handling and Storage

Precautions for safe handling: Use with adequate ventilation. Wash thoroughly after using.

Conditions for safe storage, including any incompatibilities: Keep container closed when not in use. Store in cool, dry, well-ventilated area. Protect against physical damage. No incompatible materials are known.

8. Exposure Controls

Exposure Guidelines: As supplied, this product is not a hazardous material with established occupational exposure limits. Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.

Appropriate engineering controls: Showers. Eyewash stations. Wear appropriate personal protective equipment (goggles, gloves, lab coat) and use only in well-ventilated areas.

9. Physical and Chemical Properties

Appearance: Translucent liquid

Odor: No data available

pH: 7.5 at 25°C.

Boiling point: No data available.

Melting point: No data available.

Flashpoint: No data available.

Explosive properties: No data available.

Vapor pressure: No data available.

Specific Gravity: No data available.

Solubility in Water: Soluble.

10. Stability and Reactivity

Reactivity: No dangerous reactions known under normal conditions of use.

Chemical stability: Stable under recommended storage conditions. Store at -20°C.

Possibility of hazardous reactions: Danger of explosion with strong oxidizers.

Conditions to avoid: Incompatible materials. Ignition sources. Heat.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may lead to release of irritating and toxic gases (Carbon monoxide, carbon dioxide).

11. Toxicological Information

Acute toxicity: No data available.

Local effects: Skin contact: Mild irritation.

Eye contact: Mild irritation.

Inhalation: Mild irritation.

Ingestion: May cause drowsiness and dizziness or burns of the upper respiratory tracts.

Carcinogenicity: No data available.

12. Ecological Information

Ecotoxicity: 8% of the mixture consists of components that are unknown hazards to the environment.

No information is available about degradation, bioaccumulation, toxicity in the environment, on mobility in soil, or on the effect on ozone.

13. Disposal Considerations

Avoid release into the environment (draining), use a licensed disposal company. Unused product should be disposed of observing all federal, state and local regulations.

14. Transport information

Not listed as hazardous material.

15. Regulatory information

Listed on The Toxic Substances Control Act (TSCA) Section 8(b) Inventory

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (CWA) (40 CFR 122.21 and 40 CFR 122.42).

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

16. Other Information

Disclaimer: The information provided on this SDS is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind of the properties of this product. Somagenics shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements.