

Material Safety Data Sheet

Date of Preparation: 2/16/05

Number of Pages: 3

Section 1 – Company and Product Information

Trade Name: 2M Sodium Acetate (mRNA Isolation Kit)

Synonyms: Sodium Acetate Solution

Cartagen Molecular Systems, Inc.

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Section 2 - Composition / Information on Ingredients

Aqueous solution of proprietary compound mixture.

No hazardous components.

Section 3 - Hazards Identification

Emergency Overview

Occupational exposure presents little or no health hazard.

Potential Health Effects

Eye: May cause irritation of the eye.

Skin: May cause skin irritation.

Ingestion: May cause nausea or vomiting.

Inhalation: No toxicity expected from inhalation.

Chronic: No data on cancer.

Section 4 - First Aid Measures

In Case of Eye Contact: Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

In Case of Skin Contact: Wash with plenty of soap and water. Obtain medical attention if symptoms develop (redness, itching, etc.). Remove contaminated clothes, wash before re-use.

If Ingested: Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Be prepared to induce vomiting upon a physician's advice. Obtain medical attention if symptoms develop.

If Inhaled: Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Note To Physician: Treat symptomatically.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Move container if possible, cool with flooding amounts of water. Avoid breathing corrosive vapors, knock down with water spray. Vapors heavier than air, may travel considerable distance and flash back from source of ignition.

Extinguishing Media: Use means appropriate for surrounding materials.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

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Upper: Not available.

Firefighting Techniques/Equipment: Standard turnout gear ("bunker gear"). Positive-pressure self-contained breathing apparatus.

Hazardous Combustion Products: Includes carbon dioxide, carbon monoxide, dense smoke.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

Section 7 - Handling and Storage

Handling: Keep closed or covered when not in use.

Storage: Suitable for most general chemical storage areas. Storage of some materials is regulated by federal, state, and/or local laws.

Storage Pressure: Ambient

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Area ventilation is generally adequate.

Exposure Limits: OSHA PEL AGCIH TWA

Component (ppm) (ppm)

No hazardous components

Personal Protective Equipment

Eyes: Safety glasses should be the minimum eye protection.

Skin: Gloves should be used as minimum hand protection.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: No respiratory protection will be needed under normal industrial operating conditions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid solution

Appearance: Colorless

Odor: None

Vapor Pressure: Not established.

Vapor Density: Not established.

Evaporation Rate: Not established.

Viscosity: Not established.

Boiling Point: Not established.

Freezing/Melting Point: Not established.

Decomposition Temperature: Not established.

Specific Gravity/Density: Not established.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Strong oxidizers.

Incompatibilities:

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Toxic gases.

Hazardous Polymerization: Not expected to occur.

Section 11 – Toxicological Information

Acute Toxicity:

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Dermal/Skin: Not determined.
Inhalation/Respiratory: Not determined.
Oral/Ingestion: Not determined.
Target Organs: No data found.
Carcinogenicity:
NTP: Not tested.
IARC: Not listed.
OSHA: Not regulated.

Section 12 - Ecological Information

Ecotoxicological Information: No ecological information available.
Environmental Fate (Degradation, Transformation, and Persistence): Bioconcentration is not expected to occur.

Section 13 - Disposal Considerations

Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
Dispose of by incineration following Federal, State, Local, or Provincial

Section 14 – Transport Information

DOT:
Proper Shipping Name: Not determined
Non-hazardous for transport
IATA:
Non-hazardous for transport

Section 15 – Regulatory Information

UNITED STATES:
TSCA: This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.
Prop 65 Listed Chemicals: PROP 65 PERCENT
No Prop 65 Chemicals.
No 313 Chemicals
CANADA:
DSL/NDSL: Not determined.
COMPONENT WHMIS Classification
No hazardous components
EUROPEAN UNION:
PRODUCT RISK PHRASES: None assigned.
PRODUCT SAFETY PHRASES: Not applicable.
PRODUCT CLASSIFICATION: Not classified as hazardous

Section 16 – Other Information

Disclaimer: For R&D use only. Not for drug, household or other uses.

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