

## MagCore mRNA One-Step Kit

Revision date: 2024/06/03

Version: 2024-01

### 1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product number: MagCore mRNA One-Step Kit

Product number: MRM-01, MRM-03

Intended use: Biochemical Kit

Supplier: RBC Bioscience Corp.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture

#### GHS Label element, including precautionary statements

Not a hazardous substance or mixture

#### Other hazards:

Not applicable.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

ingredients

Chemical Name	CAS-No.	Concentration (%)
Lithium chloride	7447-41-8	1~2
Water	7732-18-5	>98

### 4. FIRST AID MEASURES

#### General advice:

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

#### If inhaled:

Remove to fresh air. Get medical attention immediately if symptoms occur.

#### In case of skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

#### In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### If swallowed:

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### Most important symptoms and effects, both acute and delayed:

None reasonably foreseeable



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## Indication of any immediate medical attention and special treatment needed:

No information available

### 5. FIRE FIGHTING MEASURE

#### Suitable Extinguishing media:

Use water spray, alcohol-resistant foam, dry extinguishing powder, BC-powder, carbon dioxide.

#### Specific hazards arising from the substance or mixture:

Ingredients of the mixture combustible. The product itself does not burn.

#### Hazardous combustion products:

Lithium oxide.

#### Advice for firefighters:

In the event of fire and/or explosion don't breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personal to safe areas. Avoid breathing dust/fume/gas/mist/vapors/spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### Environmental precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

#### Methods and materials for containment and cleaning up:

Absorb with liquid-binding material. Keep in suitable, closed containers for disposal. See section 13.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling:

No special measures and necessary. Wash hands before breaks and after work. Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation.

#### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

#### Specific designs for storage room or vessels

Recommended storage temperature: 15-30°C

#### Specific end use(s):

No information available.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

#### Ingredients with workplace control parameters

This product contains no substances with occupational exposure limit values.

#### Exposure controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

#### Personal protective equipment

##### Eye/Face protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU)

##### Skin and body protection:

Wear impervious protective clothing, including shoes, gloves, apron, coveralls, lab coat, as appropriate to prevent skin contact.



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## **Respiratory protection:**

In the case of vapor formation use a respirator with an approved filter

## **Hygiene measures**

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid/suspension

Color: No data available.

Odor: No data available.

Odor Threshold: No data available.

pH: No data available.

Melting point/range: No data available.

Boiling point/range: No data available.

Flash point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapor pressure: No data available.

Relative vapor density: No data available.

Relative density: No data available.

Density: No data available.

Solubility: No data available.

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient n-octanol/water: No data available.

Auto ignition temperature: No data available.

Thermal decomposition: No data available.

Viscosity: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

## 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reactions: Stable under recommended storage conditions.

Conditions to avoid: No data available.

Incompatible materials: No data available

Hazardous decomposition products: No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### **Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Test data are not available for the complete mixture

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### **Classification according to GHS (1272/2008/EC, CLP)**

### **Acute toxicity**



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Lithium chloride

LD50 Oral : 526mg/kg (Rat) ; LD50 Dermal : >2000mg/kg(Rat) ; LC50 Inhalation : >5.57mg/L/4h(Rat)

## **Skin corrosion/irritation**

No data available.

## **Serious eye damage/eye irritation**

No data available.

## **Respiratory or skin sensitization**

No data available

## **Germ Cell mutagenicity**

Shall not be classified as germ cell mutagenic

## **Carcinogenicity**

Shall not be classified as carcinogenic

## **Reproductive toxicity**

Shall not be classified as a reproductive toxicant

## **STOT-single exposure**

Shall not be classified as a specific target organ toxicant (single exposure)

## **STOT-repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure)

## **Aspiration toxicity**

Shall not be classified as presenting an aspiration hazard

## **Symptoms related to the physical, chemical and toxicological characteristics**

### **If swallowed**

No data available

### **If in eyes**

No data available

### **If inhaled**

No data available

### **If on skin**

No data available

## **Other information**

No data available

## **Endocrine disruption properties**

None of the ingredients are listed

## **Information on other hazards**

There is no additional information

## 12. Ecological Information

### **Toxicity**

Lithium chloride

EC50 : 158mg/L/96h (rainbow trout)

### **Biodegradation**

No data available

### **Persistence and degradability**

No data available



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## Bio accumulative potential

No data available

## Mobility in soil

Lithium chloride : -2.66 log Pow.

## Results of PBT and vPvB assessment

No data available

## Endocrine disrupting properties

No data available

## Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment Methods

The product must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions

## 14. TRANSPORT INFORMATION

### UN number or ID number:

Not subject to transport regulations.

### UN proper shipping name:

Not assigned

### Transport hazard class(es):

None

### Packing group, if applicable:

Not assigned

### Environmental hazards:

non-environmentally hazardous acc.to the dangerous goods regulations.

### Special precaution for user

There is no additional information.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

### Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk

### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) –

### Additional information:

Not subject to ADR, RID and ADN

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or

## **mixture**

### **Relevant provisions of the European Union (EU)**

Restrictions according to REACH, Annex XVII.

### **List of substances subject to authorization (REACH, Annex XIV)/SVHC - candidate list**

None of the ingredients are listed.

### **Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**

None of the ingredients are listed.

### **Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

### **Regulation on the marketing and use of explosives precursors**

None of the ingredients are listed.

### **Regulation on substances that deplete the ozone layer (ODS)**

None of the ingredients are listed.

### **Regulation concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients are listed.

### **Regulation on persistent organic pollutants (POP)**

None of the ingredients are listed.

### **Other International Inventories**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.