

MagCore Circulating DNA Large volume kit

Revision date: 2024/06/03

Version: 2024-01

1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product number: MagCore Circulating DNA Large Volume kit

Product number: MPD4000-01, MPD4000-03

Intended use: Biochemical Kit

Supplier: RBC Bioscience Corp.

15F., No. 15, Ciaoh Rd., Zhonghe Dist., New Taipei City 235029 , Taiwan

Emergency/Phone Number: +886-2-8912-1200

E-mail: info@rbcbioscience.com

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral/Inhalation): Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/irritation: Category 2

Respiration sensitization: Category 1

GHS Label element

pictograms:



GHS07



GHS08

Signal Word: Warning

Hazard Statements

H302+H332 Harmful if swallowed or if inhaled.

H315+H319 Causes skin and serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection

Response

P301+P312+P330 if swallowed: call a poison center/ doctor if you feel unwell. Rinse mouth.

P302+P352 if on skin: wash with plenty of water.

P305+P351+P338 if in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P337+P313 if eye/skin irritation persists: get medical advice/attention.

P304+P340 if inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 if experiencing respiratory symptoms: Call a poison center or doctor/ physician.

Other hazards

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

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Guanidine Hydrochloride	50-01-1	20~25
Ammonium Acetate	631-61-8	4~5
Proteinase K	39450-01-6	1~2
Water	7732-18-5	>75

4. FIRST AID MEASURES

General advice:

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

If inhaled:

If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If symptoms persist, call a physician.

In case of skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact:

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.

If swallowed:

If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Vomiting, Diarrhoea, Gastrointestinal complaints.

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:

Carbon oxides.

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:



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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.

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

Guanidine hydrochloride:

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Guanidine hydrochloride	50-01-1	Oral	556.5 mg/kg
Guanidine hydrochloride	50-01-1	Inhalation: dust/mist	3181mg/l/4h

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Guanidine hydrochloride	50-01-1	Oral	LD50	556.5 mg/kg	Rat
Guanidine hydrochloride	50-01-1	Inhalation: dust/mist	LC50	3181mg/l/4h	Rat
Guanidine hydrochloride	50-01-1	dermal	LD50	>2000mg/kg	Rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Cause serious eye irritation.

**Respiratory or skin sensitization**

Shall not be classified as a respiratory or skin sensitizer

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**

diarrhea, vomiting, gastrointestinal complaints

If in eyes

Causes serious eye irritation

If inhaled

cough, Irritation to respiratory tract, Dyspnea

If on skin

causes skin irritation

Other information

Other adverse effects: Cardiac arrhythmias, Vertigo

Endocrine disruption properties

None of the ingredients are listed

Information on other hazards

There is no additional information

12. Ecological Information

Toxicity

Shall not be classified as hazardous to the aquatic environment.

Guanidine hydrochloride

Acute toxicity(acute) of components of the mixture					
Name of substance	CAS No	Exposure time	Endpoint	Value	Species
Guanidine hydrochloride	50-01-1	48h	EC50	70.2mg/l	Aquatic invertebrates
Guanidine hydrochloride	50-01-1	72h	ErC50	33.5mg/l	algae

Biodegradation

No data available

Persistence and degradability

No data available

Bio accumulative potential**Guanidine hydrochloride**



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Partition coefficient n-octanol/water: log Pow: ca.-1.7 (20°C)

Mobility in soil

No data available

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



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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.