MBead Virus Nucleic acid Kit

Identification of the product / Substance and of the company

Product Name: MBead Virus Nucleic acid Kit
Catalogue number of the product: PDM04-0100
Use of the product: For laboratory use.
Company identification: BIO-HELIX Co., LTD.
Site: http://www.bio-helix.com
E-mail: info@bio-helix.com

Composition / Information on ingredients

Ingredients:

Lysis Buffer	5-10% Guanidine Hydrochloride	CAS-No. 50-01-1
Wash Buffer:	10-15% Propan-2-ol	CAS-No. 67-63-0
Release Buffer	No hazardous substances in concentrations to be declared	
Magnetic Bead	No hazardous substances in concentrations to be declared	

Other components:
Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Hazards identification

Guanidine Hydrochloride:
Signal word: Warning
Acute oral toxicity: Category 4
Acute inhalation toxicity: Category 4
Skin irritation: Category 2
Eye damage/eye irritation: Category 2A
Hazard statements: Cause eye irritation. Harmful if swallowed.
Precautionary statements: Wear protective gloves/ protective clothing/ eye protection/ face protection.
Storage: Store in a well-ventilated place.
Other hazards: None known.

Propan-2-ol
Signal word: Danger
Eye damage/eye irritation: Category 2A
Hazard statements: Cause serious eye irritation.
Precautionary statements: Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat, sparks, open flames, hot surfaces.
Storage: Store in a well-ventilated place.
Other hazards: None known.

First Aid Measures

Guanidine Hydrochloride:
In case of eye contact:
Immediately rinse out with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
In case of skin contact:
Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Get medical aid.
If inhaled:
Remove from exposure and move to fresh air immediately. If necessary, also oxygen.
If swallowed:
Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Propan-2-ol
In case of eye contact:
Immediately rinse out with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
In case of skin contact:
Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Get medical aid.
If inhaled:
Remove from exposure and move to fresh air immediately.
If swallowed:
Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Fire-fighting measures

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Decomposition: Dangerous decomposition is not anticipated.

Accidental release measures

Actions to be taken on spillage:	Dilute spilled liquids with plenty of water and adsorb.
Absorbent material:	No restriction.
Actions to be taken to limit Damage:	Special measures to limit damage are not necessary.

Handling and storage

Advice on safe handling:	Open and handle vessels carefully. Avoid contact with skin and eyes.
Storage condition:	Keep container tightly closed. Store at room temperature.
Storage procedures:	Do not store together with acids.

Physical and chemical properties

Lysis Buffer	Form: liquid	Miscibility with water: immiscible	pH: 4.5
Wash Buffer	Form: liquid	Miscibility with water: immiscible	pH: 5.0
Release Buffer	Form: liquid	Miscibility with water: immiscible	pH: 8.5

Stability and reactivity

Stability:	Stable under normal conditions.
Reactivity:	Stable under normal conditions.
Conditions to avoid:	Reacts with alkalis and oxidizing agents.
Hazardous decomposition products:	Danger of toxic pyrolysis products.

Toxicological information

Guanidine Hydrochloride
Acute oral toxicity: LD50 rat 475 mg/kg
Skin corrosion/irritation: Irritations.
Eye damage: Causes serious eye damage.

Sodium Acetate
Acute oral toxicity: LD50 rat 2,700 mg/kg.
Skin corrosion/irritation: rabbit – No skin irritation – 4 hrs.
Eye damage: No damage – 24 hrs.

Propan-2-ol
Acute oral toxicity: LD50 rat 5,840 mg/kg.
Skin corrosion/irritation: rabbit – No skin irritation – 4 hrs.
Eye damage: Causes eye irritation.
Skin corrosion/irritation: rabbit – Cause burns.

Ecological information

May be harmful to aquatic. Avoid release to the environment.

Disposal considerations

Waste disposal route: Used reagent can be disposed in accordance with local regulations. Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes. Clean thoroughly prior to disposal.

Transport information

Special precautions: None known.
Proper shipping name: Not dangerous goods according to transport regulations.
National transport regulations: No additional national transport regulations are known to the supplier.
IMDG: Non-hazardous for sea freight.

ADR: Non-hazardous for road transport.
RID: Non-hazardous for rail transport.
ICAO/IATA: Non-hazardous for air transport.

Regulatory information

SARA (Superfund and Reauthorization Act)

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients are listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity:	None of the ingredients are listed.

Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. PureDireX (Bio-Helix) shall not be held liable for any damage resulting from handling or from contact with the above product.

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