

1. PRODUCT/PREPARATION/COMPANY

Trade name: **BIOTOOLS MgCl₂ 50 mM**

Company: Biotools, B & M Labs, S.A.
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Product Number: 20.036

Emergency number: please contact Biotools distributor in your country. Spain only: 91 562 04 20

2. HAZARDS IDENTIFICATION

Not hazardous according to Directive 67/548/EC.

3. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Solution in water. Volume of each product package: 2 ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger ¹	Risks
7791-18-6	232-094-6	Magnesium chloride 6 hydrate	1%	None	None
7732-18-5	231-791-2	Water	≈ 99%	None	None

4. FIRST AID MEASURES

Skin contact

Wash skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and shoes before reuse.

Eye contact

Rinse opened eyes for at least 15 min with copious amounts of water. Check for and remove any contact lenses. Call a physician if eyes become irritating.

Ingestion

Rinse mouth with water. Remove dentures if any. Move person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing: belts, ties,...

Inhalation

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or respiratory arrest occurs, give artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing: belts, ties,...

¹ Dangers and risks on active ingredients are applicable to pure ingredients. Amounts present in the specified product are under threshold levels as per Directive 67/548/EC and other European Legislation in force.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Non- flammable. Use an extinguishing agent suitable for the surrounding fire.

Fire and explosion hazards

No specific hazards.

Protective equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use suitable protective equipment.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with ground, sewerage system or water course

Measures for cleaning/collecting

Collect spilled liquid with liquid-binding material or inert absorbent and place it in a container for disposal. Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Always keep the containers tightly closed. Observe good laboratory technique when handling. Normal measures for preventive fire protection.

Storage

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

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

No special ventilation requirements. The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

Eye protection

Wear safety glasses

Hand protection

Wear protective gloves

Skin protection

Wear labcoat

Hygiene measures

General industrial hygiene practice

Breathing equipment

Use a properly fitted, particulate filter respirator complying with an approved standard if risk assessment indicates this is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solution in water

Colour: Colorless

Odour: Odorless

Boiling point: no data available.

Flash point: no data available

Explosive properties: no data available

Vapor pressure: no data available

pH: 5- 6.5

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling and storage conditions

Hazardous decomposition products

No data available

Conditions to avoid

Avoid strong oxidising agents, fire.

11. TOXICOLOGICAL INFORMATION**Potencial Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed in huge quantities: vomiting, diarrhoea, low blood pressure, palpitations, tiredness, weakness.

Acute toxicity: oral; rat; LD50: 8100 mg/kg
Oral; mouse; LD50: 7600 mg/kg

Chronic exposure

May cause damage to the following organs: kidneys, gastrointestinal tract, central nervous system.

Sensitization

May cause eye irritation

12. ECOLOGICAL INFORMATION

There is no danger of ecological damage as long as the product is used and wasted in the correct way.

13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.
Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.
The product and packaging should be disposed of in accordance with the instructions of the local authorities.

14. TRANSPORT INFORMATION**RID/ADR**

Non-hazardous for road transport

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

15. REGULATORY INFORMATION

This substance is not classified as dangerous according to Directive 67/548/EEC.

16. 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. The information in this document is based on the present state of our knowledge, and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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