

**1. PRODUCT/PREPARATION/COMPANY**

Trade name: **BIOTOOLS MgCl<sub>2</sub> 50 mM**

Company: Biotools, B & M Labs, S.A.  
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SPAIN  
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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 <sup>1</sup> | Risks |
|-----------|-----------|-------------------------------------|----------|---------------------|-------|
| 7791-18-6 | 232-094-6 | <b>Magnesium chloride 6 hydrate</b> | 1%       | None                | None  |
| 7732-18-5 | 231-791-2 | <b>Water</b>                        | ≈ 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,...

<sup>1</sup> 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

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## 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.

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## 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.

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## 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.

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## 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

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## 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.

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**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

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**12. ECOLOGICAL INFORMATION**

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

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**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.

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**14. TRANSPORT INFORMATION****RID/ADR**

Non-hazardous for road transport

**IMDG**

Non-hazardous for sea transport

**IATA**

Non-hazardous for air transport

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**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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