
1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Trade name: **BIOTOOLS 50mM MgCl₂ Solution**

Product Number: 20.036

Chemical Name: Not Applicable

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST.

Relevant identified uses: For research use only. Not for use in diagnostic procedures.

Uses advised against: Not for consumer use

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET.

Manufacturer / Supplier

Company: Biotoools, B & M Labs, S.A.

Valle de Tobalina – 52 – Nave 39

28021 Madrid

SPAIN

Tel: +34 91 710 00 74

Fax: +34 91 505 31 18

1.4 EMERGENCY NUMBER

Please contact Biotoools distributor in your country. Spain only: 91 562 04 20

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 LABEL ELEMENTS

Label elements

Hazard pictograms

None

Signal Word

None

Hazard Statements

Not Applicable

EU Specific Hazard Statements

Not Applicable

Precautionary Statements

Prevention

Not Applicable

Response

Not Applicable

Storage

Not Applicable

Disposal

Not Applicable

2.3 OTHER HAZARDS

None known

3.COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS**3.1 SUBSTANCE**

Not applicable

3.2 MIXTURE

Chemical characterisation: Solutions in buffer. Volume of each product package: 1.8ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger ¹	Risks
7786-30-3	232-094-6	Magnesium chloride	>0.1%	None	None

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

4. FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST AID MEASURES****Skin contact**

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes.

Eye contact

Flush eyes with water as a precaution

Ingestion

Make victim drink water. Call a doctor if feeling unwell.

Inhalation

After inhalation remove to fresh air.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No information available

4.3 INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED

No information available

5. FIRE FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA****Suitable extinguishing media**

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

For this mixture no limitations of extinguishing agents are given.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Nature of decomposition products not known.

5.3 ADVICE FOR FIREFIGHTERS

Special protective equipment for firefighters

In the event of fire wear self-contained breathing apparatus.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel:

Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

No special environmental precautions required.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 REFERENCE TO OTHER SECTIONS

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Hygiene measures

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions:

Tightly closed.

Recommended storage temperature see product label

7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Components with workplace control parameters.

8.2 EXPOSURE CONTROLS

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Tightly fitting safety goggles

Use equipment for eye protection tested and approved under appropriate government standards

Hand protection

full contact:

Glove material: butyl-rubber
Glove thickness: 0,7 mm
Break through time: > 480 min

splash contact:

Glove material:butyl-rubber
Glove thickness:0,7 mm
Break through time:> 480 min

Other protective equipment

protective clothing

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

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: 7-9

9.2 OTHER DATA

No information available

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

No data available

10.2 CHEMICAL STABILITY

Stable under normal handling and storage conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

10.4 CONDITIONS TO AVOID

No data available

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No data available

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

LD50 Oral - Rat - female - > 5.000 mg/kg

(OECD Test Guideline 423)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - In vitro study

Result: No skin irritation - 15 min

(Human Skin Model Test)

Remarks: (for the hexahydrate)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 72 h

(OECD Test Guideline 405)

Respiratory or skin sensitization

Maximisation Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 FURTHER INFORMATION

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Handle in accordance with good industrial hygiene and safety practice

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Toxicity to fish

static test LC50 - Pimephales promelas (fathead minnow) - 2.119,3mg/l - 96 h

(US-EPA)

Toxicity to daphnia and other aquatic invertebrates

static test LC50 - Daphnia magna (Water flea) - 548,4 mg/l - 48 h

Toxicity to algae

Growth rate EC50 - Desmodesmus subspicatus (green algae) - > 100mg/l - 72 h
(OECD Test Guideline 201)

Toxicity to bacteria

static test EC50 - activated sludge - > 900 mg/l - 3 h
(OECD Test Guideline 209)

12.2 PERSISTENCE AND DEGRADABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No information available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not Conducted.

12.6 OTHER ADVERSE EFFECTS

No data available

13. DISPOSAL CONSIDERATIONS

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

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 CHEMICAL SAFETY ASSESMENT

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Training advice

Provide adequate information, instruction and training for operators.

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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