

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Product name MAGNESIUM SULFATE HEPTAHYDRATE  
CAS-No. 10034-99-8  
Product code AR1114

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Chemical for analysis and production.

**1.3 Details of the manufacturer of the safety data sheet**

Manufacturer RCI LABSCAN LIMITED.  
24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand  
Telephone number (662) 613-7911-4  
Fax number (662) 613-7915

**1.4 Emergency Telephone Number**

Emergency phone (662) 613-7911-4

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

This substance is not hazardous according to Regulation (EC) No. 1272/2008 and Directive 67/548/EEC.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

This substance is not need to be labelled in according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards** None

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Synonyms Magnesium sulphate, Magnesium sulphate heptahydrate, Bitter salt, Epsom salt.

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
10034-99-8	231-298-2	-	MgSO <sub>4</sub> .7H <sub>2</sub> O	246.48 g/mol	<=100

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

This substance is not hazardous ingredients according to Regulation (EC) No 1272/2008.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Move to fresh air in case of accidental inhalation of dust.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Ingestion	Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 2.2 and section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

Not Available

## SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing media**

In adaption to materials stored in the immediate neighborhood.

**5.2 Special hazards arising from the substance or mixture**

Non-combustible. Ambient fire may liberate hazardous vapors. The following may develop in event of fire: magnesium oxides, sulfur oxides.

**5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus. Avoid contact with skin and wear suitable protective clothing.

**5.4 Further information**

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid generation of dusts; do not inhale dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protective equipment see **Section 8**.

**6.2 Environmental precautions**

Do not allow to enter drinking water and sewerage system.

**6.3 Methods and materials for containment and cleaning up**

Carefully sweep up, gather and remove. Avoid generation of dusts. Keep in suitable, closed containers for disposal. Clean up affected area.

**6.4 Reference to other sections**

For disposal see **Section 13**.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Provision of good ventilation in the working area. Do not leave container open. Avoid spillage. Avoid rising dust.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water, moisture and incompatible materials.

**Storage class 13 (TRGS 510); Non-combustible solid.**

**7.3 Specific end use(s)**

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

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

### Individual protection measures (Personal protective equipment, PPE)

## **Eye/face protection**

Goggles giving complete protection to eyes.

## Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

## Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when dusts are generated filter P1 (EN 143) or use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Environmental exposure controls

#### Prevent liquid entering sewers, basements and workpits.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Hygroscopic

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Risk of explosion in contact with acetylene compounds, 1-ethoxy-3-methyl-1-butan-3-ol, metal powder.

### 10.4 Conditions to avoid

Heating, exposure to moisture.

### 10.5 Incompatible materials

Acetylene compounds, 1-ethoxy-3-methyl-1-butan-3-ol, metal powder.

### 10.6 Hazardous decomposition products

Sulfur oxides, magnesium oxides (Hazardous decomposition products from under fire condition).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not Available

#### Skin corrosion/irritation

Not Available

#### Serious eye damage/eye irritation

Not Available

#### Respiratory or skin sensitization

Not Available

#### Germ cell mutagenicity

Not Available

#### Carcinogenicity

Not Available

#### Reproductive toxicity

Not Available

#### Specific target organ toxicity (STOT) - single exposure

Not Available

#### Specific target organ toxicity (STOT) - repeated exposure

Not Available

#### Aspiration hazard

Not Available

#### Further information

Therapeutically used substance. Toxic effects are only to be expected at very high doses.

After swallowing of large amount: nausea, vomiting, diarrhea.

The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish	LC <sub>50</sub> Gambusia affinis: 15500 mg/l/96h.
Toxicity to daphnia and other aquatic invertebrates	EC <sub>50</sub> Daphnia magna: 1700 mg/l /24h.
Toxicity to algae	IC <sub>50</sub> Desmodesmus subspicatus: 2700 mg/l/72 h.
Toxicity to bacteria	EC <sub>50</sub> Photobacterium phosphoreum : 84 mg/l /30 min.

### 12.2 Persistence and degradability

Biodegradability	Method for the determination of biodegradability are not applicable to inorganic substance.
------------------	---

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)	Not Available
---	---------------

### 12.4 Mobility in soil

Not Available
---------------

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Do not allow to enter waters, waste water or soil.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

## SECTION 14: Transport information

Not subject to transport regulations.

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not Available

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### Recommended restrictions

Take notice of labels and safety data sheets for the working.

### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

### Further information

Contact to RCI Labscan Limited.

### Revision Date

01/08/2025

---

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.