



## MATERIAL SAFETY DATA SHEET SDS/MSDS

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : MAGNESON II AR (REAGENT FOR MAGNESIUM)

Product code : B-01609

Identification of the product : MAGNESON II AR  
CAS No: 5290-62-0

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

Use : Industrial. For professional use only.

#### 1.3. Details of the supplier of the safety data sheet

Company identification : Bio-Chem Chemicals  
5455 Nicholson Road, Science Market  
Ambala Cantt, 133001 - Haryana  
+91 82952 41953  
info@biofinechemical.com - www.biofinechemical.com

#### 1.4. Emergency telephone number

Phone no. : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

### 2. Hazards identification -DSD

#### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/37/38

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

#### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: Xi : Irritant

R Phrase(s)

: R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s)

: S22 : Do not breathe dust.

S24/25 : Avoid contact with skin and eyes.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 : Wear suitable protective clothing.

### Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Warning

Hazard statements

: H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H335 : May cause respiratory irritation.

Precautionary statements

#### • Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

#### • Response

: P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P332+P313: If skin irritation occurs : Get medical advice.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

#### • Storage

: P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

#### • Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 3. Composition/information on ingredients

Substance / Preparation : MAGNESON II AR

Substance.

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

#### 4.1. Description of first aid measures

**Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Wash with plenty of soap and water. If skin irritation occurs : Specific treatment ( see on this label). Get medical advice. Wash contaminated clothing before reuse.

**Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Causes serious eye irritation.  
Causes skin irritation. May cause respiratory irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

#### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

#### 5.3. Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 5. Fire-fighting measures (continued)

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**Handling** : Wash thoroughly after handling.  
Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**Special precautions** : Avoid breathing dust, fume, gas, mist, vapours, spray.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

**Specific end use(s)** : None.

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

|                          |                                           |
|--------------------------|-------------------------------------------|
| Personal protection      | : Avoid all unnecessary exposure.         |
| • Respiratory protection | : Wear approved mask.                     |
| • Hand protection        | : Wear protective gloves.                 |
| • Skin protection        | : Wear suitable protective clothing.      |
| • Eye protection         | : Chemical goggles or safety glasses.     |
| • Others                 | : When using, do not eat, drink or smoke. |

#### 8.2. Control parameters

|                              |                      |
|------------------------------|----------------------|
| Occupational Exposure Limits | : No data available. |
|------------------------------|----------------------|

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                    |                      |
|------------------------------------|----------------------|
| Physical state at 20 °C            | : Solid.             |
| Colour                             | : Red powder         |
| Odour                              | : Odorless           |
| Odour threshold                    | : No data available. |
| pH value                           | : Not applicable.    |
| Melting point [°C]                 | : 270 °C             |
| Decomposition point [°C]           | : N/A                |
| Critical temperature [°C]          | : N/A                |
| Auto-ignition temperature [°C]     | : N/A                |
| Flammability (solid, gas)          | : N/A                |
| Flash point [°C]                   | : N/A                |
| Boiling point [°C]                 | : N/A                |
| Initial boiling point [°C]         | : N/A                |
| Final boiling point [°C]           | : N/A                |
| Evaporation rate                   | : N/A                |
| Vapour pressure [20°C]             | : N/A                |
| Vapour pressure mm/Hg              | : N/A                |
| Vapour density                     | : N/A                |
| Density [g/cm <sup>3</sup> ]       | : N/A                |
| Relative density, gas (air=1)      | : N/A                |
| Relative density, liquid (water=1) | : N/A                |
| Solubility in water [% weight]     | : Insoluble in water |

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 9. Physical and chemical properties (continued)

|                                        |                      |
|----------------------------------------|----------------------|
| Solubility in water                    | : N/A                |
| Log Pow octanol / water at 20°C        | : No data available. |
| Solubility                             | : N/A                |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                |

#### 9.2. Other information

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

### 10. Stability and reactivity

#### 10.1. Reactivity

|            |                    |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

#### 10.2. Chemical stability

|                    |                                                |
|--------------------|------------------------------------------------|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|------------------------------------------------|

#### 10.3. Possibility of hazardous reactions

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

#### 10.4. Conditions to avoid

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--------------------------------------------------------|

#### 10.5. Incompatible materials

|                    |                               |
|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
|--------------------|-------------------------------|

#### 10.6. Hazardous decomposition products

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide. |
|----------------------------------|-------------------------------------------|

### 11. Toxicological information

#### 11.1. Information on toxicological effects

|                |
|----------------|
| Acute toxicity |
|----------------|

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 11. Toxicological information (continued)

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| • Inhalation           | : Based on available data, the classification criteria are not met.                              |
| • Dermal               | : Based on available data, the classification criteria are not met.                              |
| • Ingestion            | : Based on available data, the classification criteria are not met.                              |
| Corrosion              | : Based on available data, the classification criteria are not met.                              |
| Irritation             | : Causes serious eye irritation.<br>Causes skin irritation.<br>May cause respiratory irritation. |
| Sensitization          | : Based on available data, the classification criteria are not met.                              |
| Mutagenicity           | : Based on available data, the classification criteria are not met.                              |
| Carcinogenicity        | : Based on available data, the classification criteria are not met.                              |
| Toxic for reproduction | : Based on available data, the classification criteria are not met.                              |
| STOT-single exposure   | : Based on available data, the classification criteria are not met.                              |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met.                              |
| Aspiration hazard      | : Based on available data, the classification criteria are not met.                              |

### 12. Ecological information

#### 12.1. Toxicity

Toxicity information : Not established.

#### 12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

#### 12.4. Mobility in soil

Mobility in soil : Not established.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

## MAGNESON II AR (REAGENT FOR MAGNESIUM)

### 13. Disposal considerations

#### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

### 14. Transport information

#### 14.1. Land transport (ADR-RID)

**General information** : Not regulated.

#### 14.2. Sea transport (IMDG) [English only]

**General information** : Not regulated.

#### 14.3. Air transport (ICAO-IATA) [English only]

**General information** : Not regulated.

### 15. Regulatory information

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

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

#### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** : It has not been carried out.

### 16. Other information

**Revision** : Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006