

### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

Product form : Substance  
:  
EC index no : 012-001-00-3  
EC no : 231-104-6  
CAS No : 7439-95-4  
Product code : 04460

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

###### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

###### 1.2.2. Uses advised against

No additional information available

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

CHEMIECALL  
Jl. Diklat Pemda, Dukuh Pinang No. 24 RT.001/003  
Kel. Bojong Nangka Kec. Kelapa Dua Tangerang 15821  
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#### SECTION 2: Hazards identification

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

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Pyrophoric Solids, H250  
Category 1  
Substances and Mixtures H260  
which, in contact with  
water, emit flammable  
gases, Category 1

Full text of classification categories and H statements : see section 16

###### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R15  
F; R17

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Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H250 - Catches fire spontaneously if exposed to air  
H260 - In contact with water releases flammable gases which may ignite spontaneously

Precautionary statements (CLP) :

P222 - Do not allow contact with air  
P223 - Keep away from any possible contact with water, because of violent reaction and possible flash fire  
P231+P232 - Handle under inert gas. Protect from moisture  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P370+P378 - In case of fire: Use ... for extinction  
P422 - Store contents under ...

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : MAGNESIUM (METAL) TURNINGS  
CAS No : 7439-95-4  
EC no : 231-104-6  
EC index no : 012-001-00-3

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.  
First-aid measures after skin contact : Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

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- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : If you feel unwell, seek medical advice.

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use extinguishing media containing water.

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

- Fire hazard : Catches fire spontaneously if exposed to air.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

## SECTION 6: Accidental release measures

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

- General measures : Do not allow contact with air.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

### 6.2. Environmental precautions

Do not allow water (or moist air) contact with this material.

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

- Methods for cleaning up : Clean up immediately by sweeping or vacuum.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Catches fire spontaneously if exposed to air. Keep away from any possible contact with water, because of violent reaction and possible flash fire.
- Precautions for safe handling : No naked lights. No smoking. Do not allow contact with air. Protect from moisture. Handle under inert gas.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Technical measures : Store contents under ...
- Storage conditions : Store in a dry place. Protect from moisture.
- Incompatible materials : Heat sources. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                          |                                      |
|--------------------------|--------------------------------------|
| Hand protection          | : protective gloves                  |
| Eye protection           | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing  |
| Respiratory protection   | : Wear appropriate mask              |

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Physical state                             | : Solid   |
| Molecular mass                             | : 24.31 g/mol   |
| Colour                                     | : silver white.   |
| Odour                                      | : odourless.  |
| Odour threshold                            | : No data available   |
| pH   | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : 648 °C  |
| Freezing point                             | : No data available   |
| Boiling point                              | : 11000 °C  |
| Flash point                                | : No data available   |
| Auto-ignition temperature                  | : 4730 °C   |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : Catches fire spontaneously if exposed to air, In contact with water releases flammable gases which may ignite spontaneously |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : No data available   |
| Density                                    | : 1.74 g/cm <sup>3</sup>  |
| Solubility                                 | : Water: Insoluble in water   |
| Log Pow                                    | : No data available   |

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|                      |                     |
|----------------------|---------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic   | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits     | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Catches fire spontaneously if exposed to air. Could react violently or explosively on contact with water.

### 10.2. Chemical stability

Catches fire spontaneously if exposed to air.

### 10.3. Possibility of hazardous reactions

Catches fire spontaneously if exposed to air. In contact with water releases flammable gases which may ignite spontaneously.

### 10.4. Conditions to avoid

Do not allow contact with air. Open flame. Overheating. Direct sunlight. Heat. Sparks.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |                  |
|--|------------------|
| Acute toxicity                                     | : Not classified |
| Skin corrosion/irritation                          | : Not classified |
| Serious eye damage/irritation                      | : Not classified |
| Respiratory or skin sensitisation                  | : Not classified |
| Germ cell mutagenicity                             | : Not classified |
| Carcinogenicity                                    | : Not classified |
| Reproductive toxicity                              | : Not classified |
| Specific target organ toxicity (single exposure)   | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard                                  | : Not classified |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 1869

UN-No. (IMDG) : 1869

UN-No.(IATA) : 1869

UN-No.(ADN) : 1869

UN-No. (RID) : 1869

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : MAGNESIUM

Proper Shipping Name (IMDG) : MAGNESIUM

Proper Shipping Name (IATA) : MAGNESIUM

Proper Shipping Name (ADN) : MAGNESIUM

Proper Shipping Name (RID) : MAGNESIUM

Transport document description (ADR) : UN 1869 MAGNESIUM, 4.1, III, (E)

Transport document description (IMDG) : UN 1869 MAGNESIUM, 4.1, III

Transport document description (IATA) : UN 1869 MAGNESIUM, 4.1, III

Transport document description (ADN) : UN 1869 MAGNESIUM, 4.1, III

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Transport document description (RID) : UN 1869 MAGNESIUM, 4.1, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 4.1

Danger labels (ADR) : 4.1



#### IMDG

Transport hazard class(es) (IMDG) : 4.1

Danger labels (IMDG) : 4.1



#### IATA

Transport hazard class(es) (IATA) : 4.1

Hazard labels (IATA) : 4.1



#### ADN

Transport hazard class(es) (ADN) : 4.1

Danger labels (ADN) : 4.1



#### RID

Transport hazard class(es) (RID) : 4.1

Danger labels (RID) : 4.1



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

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Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : F3  
Special provision (ADR) : 59  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P002, IBC08, LP02, R001  
Special packing provisions (ADR) : B3  
Mixed packing provisions (ADR) : MP11  
Portable tank and bulk container instructions (ADR) : T1  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Bulk (ADR) : VC1, VC2  
Hazard identification number (Kemler No.) : 40  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 1Z

#### - Transport by sea

Special provision (IMDG) : 59, 920  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-G  
EmS-No. (Spillage) : S-G  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : H1  
Segregation (IMDG) : SG17, SG32, SG35, SG36, SG52, SG25, SG26  
MFAG-No : 138

#### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y443  
PCA limited quantity max net quantity (IATA) : 10kg



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|                                 |         |
|---------------------------------|---------|
| PCA packing instructions (IATA) | : 446   |
| PCA max net quantity (IATA)     | : 25kg  |
| CAO packing instructions (IATA) | : 449   |
| CAO max net quantity (IATA)     | : 100kg |
| Special provision (IATA)        | : A15   |
| ERG code (IATA)                 | : 3L    |

### - Inland waterway transport

|                                   |        |
|-----------------------------------|--------|
| Classification code (ADN)         | : F3   |
| Special provisions (ADN)          | : 59   |
| Limited quantities (ADN)          | : 5 kg |
| Excepted quantities (ADN)         | : E1   |
| Equipment required (ADN)          | : PP   |
| Number of blue cones/lights (ADN) | : 0    |

### - Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : F3                      |
| Special provision (RID)                                   | : 59                      |
| Limited quantities (RID)                                  | : 5kg                     |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P002, IBC08, LP02, R001 |
| Special packing provisions (RID)                          | : B3                      |
| Mixed packing provisions (RID)                            | : MP11                    |
| Portable tank and bulk container instructions (RID)       | : T1                      |
| Portable tank and bulk container special provisions (RID) | : TP33                    |
| Tank codes for RID tanks (RID)                            | : SGAV                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W1                      |
| Special provisions for carriage – Bulk (RID)              | : VC1, VC2                |
| Colis express (express parcels) (RID)                     | : CE11                    |
| Hazard identification number (RID)                        | : 40                      |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

MAGNESIUM (METAL) TURNINGS is not on the REACH Candidate List

MAGNESIUM (METAL) TURNINGS is not on the REACH Annex XIV List

#### 15.1.2. National regulations

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### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) nwg, non-hazardous to water (KBwS-Beschluss; WGK No 1443)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                |  |
|----------------|--|
| Pyr. Sol. 1    | Pyrophoric Solids, Category 1  |
| Water-react. 1 | Substances and Mixtures which, in contact with water, emit flammable gases, Category 1 |
| H250           | Catches fire spontaneously if exposed to air   |
| H260           | In contact with water releases flammable gases which may ignite spontaneously          |
| R15            | Contact with water liberates extremely flammable gases                                 |
| R17            | Spontaneously flammable in air   |
| F              | Highly flammable   |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*