

# Safety data sheet Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)



**Magnesium powder ≥99,8 %, <75 µm**

article number: **CP20**  
Version: **3.0 en**  
Replaces version of: 2022-06-14  
Version: (2)

date of compilation: 2019-01-21  
Revision: 2024-03-02

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>Magnesium powder ≥99,8 %, &lt;75 µm</b> |
| Article number                  | CP20                                       |
| Index No (GB CLP)               | 012-002-00-9                               |
| EC number                       | 231-104-6                                  |
| CAS number                      | 7439-95-4                                  |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | Laboratory chemical<br>Laboratory and analytical use                                  |
| Uses advised against:     | Do not use for private purposes (household).<br>Food, drink and animal feedingstuffs. |

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

Carl Roth GmbH + Co. KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
**Telefax:** +49 (0) 721 - 56 06 149  
**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

| Name  | Street    | Postal code/city     | Telephone    | Website |
|---|-----------|----------------------|--------------|---------|
| National Poisons Information Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class  | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 2.7     | Flammable solid   | 1         | Flam. Sol. 1              | H228             |
| 2.12    | Substance and mixture which, in contact with water, emits flammable gas | 2         | Water-react. 2            | H261             |

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This substance is marketed in a form which has the physical properties as indicated. For full text of abbreviations: see SECTION 16

## The most important adverse physicochemical, human health and environmental effects

In contact with water releases flammable gases which may ignite spontaneously.

## 2.2 Label elements

### Labelling

#### Signal word

**Danger**

#### Pictograms

GHS02



#### Hazard statements

H228

Flammable solid

H261

In contact with water releases flammable gases

#### Precautionary statements

##### **Precautionary statements - prevention**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P223

Do not allow contact with water

##### **Precautionary statements - response**

P302+P335+P334

IF ON SKIN: Brush off loose particles from skin. Immerse in cool water

P370+P378

In case of fire: Use metal fire powder to extinguish - never use water

##### **Precautionary statements - storage**

P402+P404

Store in a dry place. Store in a closed container

##### **Precautionary statements - disposal**

P501

Dispose of contents/container in accordance with local/regional/national/international regulations

## 2.3 Other hazards

### **Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                  |
|-------------------|------------------|
| Name of substance | Magnesium powder |
| Molecular formula | Mg               |
| Molar mass        | 24,31 g/mol      |
| CAS No            | 7439-95-4        |
| EC No             | 231-104-6        |
| Index No (GB CLP) | 012-002-00-9     |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
dry extinguishing powder, D-powder, dry sand

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## Unsuitable extinguishing media

water, carbon dioxide (CO<sub>2</sub>)

## 5.2 Special hazards arising from the substance or mixture

Product may release hydrogen gas. Increased storage temperatures will accelerate this process. Water-reactive (in contact with water releases flammable gases).

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust. Take up carefully when dry.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid dust formation.

#### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Store in a dry place.

#### Incompatible substances or mixtures

Observe hints for combined storage. Do not allow contact with water.

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## Evaporative conditions

Keep container tightly closed and in a well-ventilated place.

## Consideration of other advice:

## Ventilation requirements

Use local and general ventilation.

## Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [mg/m <sup>3</sup> ] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source    |
|---------|---------------|--------|------------|--------------------------|---------------------------|--------------------------------|----------|-----------|
| GB      | dust          |        | WEL        | 10                       |                           |                                | i        | EH40/2005 |
| GB      | dust          |        | WEL        | 4                        |                           |                                | r        | EH40/2005 |

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

i Inhalable fraction

r Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### Human health values

| Relevant DNELs and other threshold levels |                      |                                    |                   |                            |
|---|----------------------|------------------------------------|-------------------|----------------------------|
| Endpoint                                  | Threshold level      | Protection goal, route of exposure | Used in           | Exposure time              |
| DNEL                                      | 10 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |

#### Environmental values

| Relevant PNECs and other threshold levels |                         |                   |                           |                              |
|---|-------------------------|-------------------|---------------------------|------------------------------|
| Endpoint                                  | Threshold level         | Organism          | Environmental compartment | Exposure time                |
| PNEC                                      | 0,41 mg/cm <sup>3</sup> | unknown           | marine water              | intermittent release         |
| PNEC                                      | 268 mg/cm <sup>3</sup>  | unknown           | freshwater sediment       | intermittent release         |
| PNEC                                      | 0,41 mg/cm <sup>3</sup> | unknown           | freshwater                | intermittent release         |
| PNEC                                      | 0,41 mg/l               | aquatic organisms | freshwater                | short-term (single instance) |
| PNEC                                      | 0,41 mg/l               | aquatic organisms | marine water              | short-term (single instance) |

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| Relevant PNECs and other threshold levels |                 |                       |                              |                              |
|---|-----------------|-----------------------|------------------------------|------------------------------|
| End-point                                 | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 10,8 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 268 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 268 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 268 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### • material thickness

$> 0,11\ \text{mm}$

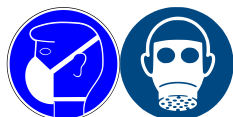
#### • breakthrough times of the glove material

$> 480\ \text{minutes}$  (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection



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Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | solid   |
| Form   | powder  |
| Colour   | silver grey   |
| Odour  | odourless   |
| Melting point/freezing point                             | 650 °C at 1.013 mbar (ECHA)   |
| Boiling point or initial boiling point and boiling range | 1.095 °C  |
| Flammability   | flammable solid in accordance with GHS criteria substance which, in contact with water, emits flammable gases (in accordance with GHS criteria) |
| Lower and upper explosion limit                          | not determined  |
| Flash point  | not applicable  |
| Auto-ignition temperature                                | not determined  |
| Decomposition temperature                                | not relevant  |
| pH (value)   | not applicable  |
| Kinematic viscosity                                      | not relevant  |
| <u>Solubility(ies)</u>                                   |   |
| Water solubility   | 0,006 g/l at 21 °C (practically insoluble) (ECHA)   |
| <u>Partition coefficient</u>                             |   |
| Partition coefficient n-octanol/water (log value):       | not relevant (inorganic)  |
| Vapour pressure  | 3,72 hPa at 650 °C  |
| <u>Density and/or relative density</u>                   |   |
| Density  | 1,75 g/cm <sup>3</sup>  |
| Relative vapour density                                  | Information on this property is not available.  |
| Bulk density   | 300 – 400 kg/m <sup>3</sup>   |
| <u>Particle characteristics</u>                          |   |
| Particle size  | <75 µm  |

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## Other safety parameters

Oxidising properties none

### 9.2 Other information

Information with regard to physical hazard classes: There is no additional information.

Other safety characteristics: There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

It's a reactive substance. Risk of ignition. Reactivity with water.

#### **If heated**

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Danger of explosion:** strong oxidiser, Ammonium compounds, Chlorates, Perchlorates, Halogenated hydrocarbons,

**Violent reaction with:** Water, Hydrogen peroxide, Nitrogen oxides (NOx), Nitrate, Acids, Alkalis,

**Risk of ignition:** Material reacts vigorously with water emitting flammable gases, Self-heating in large quantities; may catch fire,  
=> Explosive properties

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Humidity.

### 10.5 Incompatible materials

There is no additional information.

#### **Release of flammable materials with**

Water

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Classification acc. to GHS**

#### **Acute toxicity**

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed.



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| Acute toxicity |          |                         |         |        |        |
|----------------|----------|-------------------------|---------|--------|--------|
| Exposure route | Endpoint | Value                   | Species | Method | Source |
| oral           | LD50     | $> 2.000\ \text{mg/kg}$ | rat     |        | ECHA   |

## Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

## Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

## Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

## Carcinogenicity

Shall not be classified as carcinogenic.

## Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

gastrointestinal complaints

### • If in eyes

slightly irritant but not relevant for classification

### • If inhaled

cough, breathing difficulties

### • If on skin

Data are not available.

### • Other information

none

## 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## 11.3 Information on other hazards

There is no additional information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) |                     |         |        |               |
|--------------------------|---------------------|---------|--------|---------------|
| Endpoint                 | Value               | Species | Source | Exposure time |
| LC50                     | 2.800 mg/l          | fish    | ECHA   | 48 h          |
| ErC50                    | $> 12\ \text{mg/l}$ | algae   | ECHA   | 72 h          |
| EC50                     | $> 12\ \text{mg/l}$ | algae   | ECHA   | 72 h          |

| Aquatic toxicity (chronic) |          |                       |        |               |
|----------------------------|----------|-----------------------|--------|---------------|
| Endpoint                   | Value    | Species               | Source | Exposure time |
| LC50                       | 190 mg/l | aquatic invertebrates | ECHA   | 21 d          |
| EC50                       | 125 mg/l | aquatic invertebrates | ECHA   | 21 d          |

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Recycling/reclamation of metals and metal compounds.

#### Sewage disposal-relevant information

Do not empty into drains.

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## Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

## 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Properties of waste which render it hazardous

**HP 3** flammable

## 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|           |         |
|-----------|---------|
| ADRRID    | UN 1418 |
| IMDG-Code | UN 1418 |
| ICAO-TI   | UN 1418 |

### 14.2 UN proper shipping name

|           |                  |
|-----------|------------------|
| ADRRID    | MAGNESIUM POWDER |
| IMDG-Code | MAGNESIUM POWDER |
| ICAO-TI   | Magnesium powder |

### 14.3 Transport hazard class(es)

|           |           |
|-----------|-----------|
| ADRRID    | 4.3 (4.2) |
| IMDG-Code | 4.3 (4.2) |
| ICAO-TI   | 4.3 (4.2) |

### 14.4 Packing group

|           |    |
|-----------|----|
| ADRRID    | II |
| IMDG-Code | II |
| ICAO-TI   | II |

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

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### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Additional information

|   |  |
|---|--|
| Proper shipping name  | MAGNESIUM POWDER                               |
| Particulars in the transport document   | UN1418, MAGNESIUM POWDER, 4.3 (4.2), II, (D/E) |
| Classification code   | WS   |
| Danger label(s)   | 4.3+4.2  |
|  |  |
| Excepted quantities (EQ)  | E2   |
| Limited quantities (LQ)   | 0  |
| Transport category (TC)   | 2  |
| Tunnel restriction code (TRC)   | D/E  |
| Hazard identification No  | 423  |
| <b>Emergency Action Code</b>  | 4W   |

### Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) Additional information

|   |         |
|---|---------|
| <b>Classification code</b>  | WS      |
| <b>Danger label(s)</b>  | 4.3+4.2 |
|  |         |
| <b>Excepted quantities (EQ)</b>   | E2      |
| <b>Limited quantities (LQ)</b>  | 0       |
| <b>Transport category (TC)</b>  | 2       |
| <b>Hazard identification No</b>   | 423     |

### International Maritime Dangerous Goods Code (IMDG) - Additional information

|   |   |
|---|---|
| Proper shipping name  | MAGNESIUM POWDER                        |
| Particulars in the shipper's declaration  | UN1418, MAGNESIUM POWDER, 4.3 (4.2), II |
| Marine pollutant  | -                                       |
| Danger label(s)   | 4.3+4.2                                 |
|  |   |
| Excepted quantities (EQ)  | E2                                      |
| Limited quantities (LQ)   | 0                                       |
| EmS   | F-G, S-O                                |
| Stowage category  | A                                       |
| Segregation group   | 15 - Powdered metals                    |

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## International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

|   |   |
|---|---|
| Proper shipping name  | Magnesium powder                        |
| Particulars in the shipper's declaration  | UN1418, Magnesium powder, 4.3 (4.2), II |
| Danger label(s)   | 4.3+4.2                                 |
|  |   |
| Special provisions (SP)   | A3                                      |
| Excepted quantities (EQ)  | E2                                      |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Seveso Directive

###### 2012/18/EU (Seveso III)

| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|----|---------------------------------------|---|-------|
|    | not assigned                          |   |       |

##### Deco-Paint Directive

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

##### Industrial Emissions Directive (IED)

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

##### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

##### Water Framework Directive (WFD)

###### List of pollutants (WFD)

| Name of substance | Name acc. to inventory     | CAS No | Listed in | Remarks |
|-------------------|----------------------------|--------|-----------|---------|
| Magnesium powder  | Metals and their compounds |        | a)        |         |

##### Legend

a) Indicative list of the main pollutants

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### Regulation on the marketing and use of explosives precursors

| Explosives precursors which are subject to restrictions |           |     |                      |   |                |  |
|---|-----------|-----|----------------------|---|----------------|--|
| Name of substance                                       | CAS No    | Wt% | Type of registration | Re-<br>marks                              | Limit<br>value | Upper<br>limit<br>value<br>for the<br>pur-<br>pose of<br>licens-<br>ing un-<br>der Art-<br>icle 5(3) |
| Magnesium powder  | 7439-95-4 | 100 | Annex II             | powd<br>d < 200<br>$\mu\text{m}$<br>> 70% |                |  |

#### Legend

> 70% As a substance or in mixtures containing 70 % or more, by weight, of aluminium and/or magnesium.  
Annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported  
d < 200  $\mu\text{m}$  With a particle size less than 200  $\mu\text{m}$ .  
powd Powder

#### Additional statements

If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions mentioned in Article 7 on restricted and regulated raw materials.

#### Regulation on drug precursors

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed

#### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

#### Regulation on persistent organic pollutants (POP)

not listed

#### National regulations(GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

#### Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) |                        |        |    |
|---|------------------------|--------|----|
| Name of substance   | Name acc. to inventory | CAS No | No |
| Magnesium powder  | flammable / pyrophoric |        | 40 |

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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## National inventories

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| AU      | AIIC       | substance is listed          |
| CA      | DSL        | substance is listed          |
| CN      | IECSC      | substance is listed          |
| EU      | ECSI       | substance is listed          |
| EU      | REACH Reg. | substance is listed          |
| KR      | KECI       | substance is listed          |
| MX      | INSQ       | substance is listed          |
| NZ      | NZIoC      | substance is listed          |
| PH      | PICCS      | substance is listed          |
| TR      | CICR       | substance is listed          |
| TW      | TCSI       | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |
| VN      | NCI        | substance is listed          |

### Legend

|            |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NCI        | National Chemical Inventory   |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes             |
| 15.1    |                           | Explosives precursors which are subject to restrictions:<br>change in the listing (table)                      | yes             |
| 15.1    |                           | National inventories:<br>change in the listing (table)   | yes             |

# Safety data sheet Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)



**Magnesium powder ≥99,8 %, <75 µm**

article number: **CP20**

## Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| ADR       | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                         |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C | Ceiling value   |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL      | Derived No-Effect Level   |
| EC50      | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval      |
| EC No     | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)     |
| ED        | Endocrine disruptor   |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> ) |
| EINECS    | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS    | European List of Notified Chemical Substances   |
| EmS       | Emergency Schedule  |
| ErC50     | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control                |
| GB CLP    | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)                            |
| GB REACH  | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)  |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA      | International Air Transport Association   |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO      | International Civil Aviation Organization   |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG      | International Maritime Dangerous Goods Code   |
| IMDG-Code | International Maritime Dangerous Goods Code   |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                     |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| NLP       | No-Longer Polymer   |
| PBT       | Persistent, Bioaccumulative and Toxic   |
| PNEC      | Predicted No-Effect Concentration   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals  |



# Safety data sheet Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)



**Magnesium powder  $\geq 99,8\%$ ,  $< 75\ \mu\text{m}$**

article number: **CP20**

| Abbr. | Descriptions of used abbreviations  |
|-------|---|
| RID   | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL  | Short-term exposure limit   |
| TWA   | Time-weighted average   |
| VOC   | Volatile Organic Compounds  |
| vPvB  | Very Persistent and very Bioaccumulative  |
| WEL   | Workplace exposure limit  |

## Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text  |
|------|---|
| H228 | Flammable solid.                                |
| H261 | In contact with water releases flammable gases. |

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.