

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

### *Identification of the product*

Magnesium hydroxide

### *Manufacturer/supplier identification*

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## 2. Hazards identification

### **Classification of the substance or mixture**

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

### **Label elements**

Not a hazardous substance or mixture.

### Supplemental Hazard Statements

none

## 3. Composition/information on ingredients

### *Synonyms*

Magnesium hydroxide

CAS-No.: 1309-42-8

*M*: 58.32 g/mol

Molecular formula: Mg(OH)<sub>2</sub>

## 4. First aid measures

### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

### **In case of skin contact**

Wash off with soap and plenty of water.

### **In case of eye contact**

Flush eyes with water as a precaution.

### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. Fire-fighting measures

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Silicon oxides

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

### **Personal precautions**

Avoid dust formation. Avoid breathing vapours, mist or gas.

### **Environmental precautions**

Do not let product enter drains.

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

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

**7. Handling and storage**

**Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

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

**8. Exposure controls and personal protection**

**Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**9. Physical and chemical properties**

**Form:** powder

**Colour:** white

**Odour:** not available

**pH value:** 9.5~10.5

**Melting point:** not available

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density** : 2.38g/cm<sup>3</sup>

**Bulk density**: not available

**Solubility in**

**water (20 °C)** : practically insoluble in water

**diluted acids (20 °C)** : not available

**Thermal decomposition**: not available

## 10. Stability and reactivity

**Chemical stability**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents, strong acid

**Hazardous decomposition products**

Other decomposition products - no data available

## 11. Toxicological information

**Acute toxicity**

LD50 Oral - Rat - 8,500 mg/kg

**Skin corrosion or irritation**

No data available

**Serious eye damage or eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

## 12. Ecological information

**Toxicity**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 511,31 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - ca. 284,76 mg/l -48 h

Toxicity to algae EC50 - Scenedesmus capricornutum (fresh water algae) -> 100 mg/l - 72 h

Toxicity to bacteria EC50 - activated sludge - > 1.000 mg/l

**Persistence and degradability**

no data available



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