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

### 1.1 Product identifiers

Product name : **Magnesium Chloride Hexahydrate**

CAS-No. : 7791-18-6

COMMODITY CODE : 28273100

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

Identified uses : Laboratory chemicals, Industrial & for professional use only

### 1.3 CONTACT INFORMATION

Company name : **MADHAV MAGNESIA WORKS**  
KHARAGHODA-382760  
DI. SURENDRANAGAR, GUJARAT,  
INDIA

Telephone : +91 99250 06833, +91 98980 05260, +91 98250 74051

### 1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards - none

## 3. Composition/information on ingredients

### 3.1 Substances

Formula :  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight : 203,30 g/mol  
CAS-No. : 7791-18-6  
EC-No. : 232-094-6

No components need to be disclosed according to the applicable regulations.

## 4. First aid measures

### 4.1 Description of 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.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

## 5. Firefighting measures

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

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

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

Hydrogen chloride gas, Magnesium oxide

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## 6. Accidental release measures

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

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

### 6.2 Environmental precautions

Do not let product enter drains.

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

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

## 7. Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

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

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

### 7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace control parameters**

### 8.2 Exposure controls

#### 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.

##### 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

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	7 [Neutral]
e) Melting point	244.4 F
f) Initial boiling point and	no data available
g) available boiling range	
h) Flash point	no data available
i) Evaporation rate	no data available
j) Flammability (solid, gas)	no data available
k) Upper/lower available flammability or explosive limits	no data
l) Vapour pressure	no data available
m) Vapour density	no data available
n) Relative density	1,570 g/cm <sup>3</sup>
o) Water solubility	no data available
p) Partition coefficient: n- octanol/water	no data available
q) Auto-ignition temperature	no data
r) Decomposition temp	no data available
s) Viscosity	no data available
t) Explosive properties	no data available
u) Oxidizing properties	no data available

### 9.2 Other safety information

no data available

## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

- 10.4 **Conditions to avoid**  
no data available
- 10.5 **Incompatible materials**  
Strong oxidizing agents
- 10.6 **Hazardous decomposition products**  
In the event of fire: see section 5

## 11. Toxicological information

### 11.1 **Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - rat - 8.100 mg/kg

#### **Skin corrosion/irritation**

no data available

#### **Serious eye damage/eye irritation**

no data available

#### **Respiratory or skin sensitisation**

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.

#### **Reproductive toxicity**

no data available

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**

no data available

#### **Aspiration hazard**

no data available

#### **Additional Information**

RTECS: OM2975000

Vomiting, Diarrhoea, Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

## 12. Ecological information

- 12.1 **Toxicity**  
no data available
- 12.2 **Persistence and degradability**  
no data available
- 12.3 **Bioaccumulative potential**  
no data available
- 12.4 **Mobility in soil**  
no data available
- 12.5 **Results of PBT and vPvB assessment**  
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 **Other adverse effects**  
no data available

## 13. Disposal considerations

- 13.1 **Waste treatment methods**
  - Product**  
Offer surplus and non-recyclable solutions to a licensed disposal company.
  - Contaminated packaging**  
Dispose of as unused product.

## 14. Transport information

DOT CLASSIFICATION: Not a DOT controlled material

IDENTIFICATION: Not applicable

SPECIAL PROVISIONS FOR TRANSPORT: Not applicable

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available
- 15.2 **Chemical Safety Assessment**  
For this product a chemical safety assessment was not carried out.