



## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identification:

Product name	:	MAGNESIUM CHLORIDE
Synonyms	:	Magnesium dichloride anhydrous
Formula	:	MgCl <sub>2</sub>
HSN	:	28273100
CAS-No.	:	7786-30-3
EC Number	:	232-094-6

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

Identified uses : Laboratory chemicals, Manufacture of substances .

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

- **Company** : **Maruti Color & Chemical**  
6, Siddhipark Soc.,  
Opp. Santoshinagar,  
L.H. Road, Surat - 395006  
Dist.: Surat, State : Gujarat  
Email: [info@marutichemex.com](mailto:info@marutichemex.com)  
Web: [www.marutichemex.com](http://www.marutichemex.com)
- **E-Mail Address** : [info@marutichemex.com](mailto:info@marutichemex.com)

### 1.4 Emergency Telephone Number:

- For Emergency contact on : +91 7567626199
- For Whatsapp Message on : +91 8799552145

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

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

### 2.2 Label Elements:

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### 2.3 Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



### **SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1 Substances**

Formula	:	MgCl <sub>2</sub>
Synonyms	:	Magnesium dichloride anhydrous
Molecular weight	:	95.21 g/mol
CAS-No.	:	7786-30-3
EC Number	:	232-094-6

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

### **SECTION 4 : FIRST AID MEASURES**

#### **4.1 Description of first-aid measures**

##### **If inhaled**

After inhalation: fresh air.

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

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

After eye contact: rinse out with plenty of water. Remove contact lenses.

##### **If swallowed**

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

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

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

No data available

### **SECTION 5 : FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Hydrogen chloride gas

Magnesium oxide

Not combustible.

Ambient fire may liberate hazardous vapours.

#### **5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.





### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7 : HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

For precautions see section 2.2.

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

#### **Storage conditions**

Tightly closed. Dry.

Store under inert gas. Hygroscopic.

#### **Storage class**

Storage class (TRGS 510): 13: Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

#### **Ingredients with workplace control parameters**

### 8.2 Exposure controls

#### **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). Safety glasses

##### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).



Full contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: KCL 741 Dermatril® L

### Respiratory protection

Required when dusts are generated.  
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.  
Recommended Filter type: Filter type P1

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Control of environmental exposure

Do not let product enter drains.

## **SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

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

- |   |   |
|---|---|
| a. Physical state                               | crystalline   |
| b. Colour                                       | White   |
| c. Odour  | odourless   |
| d. Melting point/freezing point                 | Melting point/range: 714 °C                             |
| e. Initial boiling point and boiling range      | 1412 °C   |
| f. Flammability (solid, gas)                    | The product is not flammable.                           |
| g. Upper/lower flammability or explosive limits | No data available                                       |
| h. Flash point                                  | Not applicable  |
| i. Autoignition Temperature                     | > 404 °C<br>- Regulation (EC) No. 440/2008, Annex, A.16 |

**MAGNESIUM CHLORIDE**

j. Decomposition temp.	No data available
k. pH	No data available
l. Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m. Water solubility	468,7 g/l at 20 °C - soluble
n. Partition coefficient: n-octanol/water	No data available
o. Vapour pressure	No data available
p. Density	2.32 g/cm <sup>3</sup> at 25 °C
Relative density	No data available
q. Relative vapour Density	No data available
r. Particle Characteristics	No data available
s. Explosive properties	No data available
t. Oxidizing properties	none

**9.2 Other information:**

No data available

## **SECTION 10 : STABILITY AND REACTIVITY**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions**

Violent reactions possible with:  
acids

**10.4 Conditions to avoid**

When mixed with limited amount of water enough heat may be generated to cause frothing.  
Exposure to moisture.  
no information available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - female - > 5.000 mg/kg  
(OECD Test Guideline 423)

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2.000 mg/kg  
(OECD Test Guideline 402)





### Skin corrosion/irritation

Skin - In vitro study

Result: No skin irritation - 15 min

(Human Skin Model Test)

Remarks: (for the hexahydrate)

The value is given in analogy to the following substances: Magnesium chloride hexahydrate  
The value is given in analogy to the following substances: magnesium chloride

### Serious eye damage/eye irritation

Eyes – Rabbit

Result: No eye irritation - 72 h

(OECD Test Guideline 405)

Remarks: (for the hexahydrate)

### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

### Germ cell mutagenicity

Test Type: Human

Test system: lymphocyte

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

### Carcinogenicity

No data available

### 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

## 11.2 Additional Information

### Endocrine disrupting properties

#### Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - > 1.000 mg/kg

RTECS: OM2800000

Central nervous system depression, Vomiting, Diarrhea, Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



**SECTION 12 : ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 2.119,3 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna(water flea) - 548.4 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	Growth rate EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 900 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	semi-static test EC10 - Daphnia magna (Water flea) - 321 mg/l - 21 d Remarks: (ECHA)

**12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

No data available

**SECTION 13 : Disposal considerations****13.1 Waste treatment methods****Product**

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**MAGNESIUM CHLORIDE****SECTION 14 : Transport information****14.1 UN number**

ADR/RID : -                      IMDG : -                      IATA : -

**14.2 UN proper shipping name**

ADR/RID : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID : -                      IMDG : -                      IATA : -

**14.4 Packaging group**

ADR/RID : -                      IMDG : -                      IATA : -

**14.5 Environmental hazards**

ADR/RID : no                      IMDG Marine pollutant : no                      IATA : no

**14.6 Special precautions for user**

No data available

**Further information**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15 : Regulatory information****15.1 Safety , health and environmental regulations / legislation specific for the substance or mixture**

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

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried.

**SECTION 16 : Other information****Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil





Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed ( Adverse ) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC – New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances ; ( Q ) SAR - ( Quantitative ) Structure Activity Relationship ; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Maruti color & Chemical and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See our Website and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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