



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

MAGNESIUM CHLORIDE HEXAHYDRATE AR

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

1.1. Product identifier

Product form

Trade name : MAGNESIUM CHLORIDE HEXAHYDRATE AR

EC-No. : 232-094-6

CAS-No. : 7791-18-6

Formula : $MgCl_2 \cdot 6H_2O$

Chemical structure

Synonyms

: Substance

: Magnesium dichloride Hexahydrate

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

1.2.2. Uses advised against

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

04-01-2023 (Revision date)

EN (English)

1/9

MAGNESIUM CHLORIDE HEXAHYDRATE AR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

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3.1. Substances

Substance type

Name

CAS-No.

EC-No.

3.2. Mixtures

: Mono-constituent

: MAGNESIUM CHLORIDE HEXAHYDRATE

: 7791-18-6

: 232-094-6

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get immediate medical advice/attention.

Get medical advice/attention.

: Rinse mouth out with water. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

: May cause respiratory irritation.

: Causes skin irritation.

: Causes serious eye irritation.

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

: Water spray. Dry powder. Foam.



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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

5.3. Advice for firefighters

: Toxic fumes may be released.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

6.2. Environmental precautions

: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Other information

6.4. Reference to other sections

: Mechanically recover the product. Clean up immediately by sweeping or vacuum.

: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

: Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

: Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

7.3. Specific end use(s)

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

No additional information available



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystals. Crystalline powder.

Colour : Colourless. White.

Odour : Odourless.

Odour threshold : No data available

pH : 4.5 – 7 at 20°C

pH solution concentration : 5 %



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Relative evaporation rate (butylacetate=1) : No data available

Melting point : 116 – 118 °C

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.569 g/cm³ at 20°C

Solubility : Water: 468.7 g/l Soluble in water - OECD Test Guideline 105

Ethanol: Soluble

Partition coefficient n-octanol/water (Log Pow) : No data available

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)



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Acute toxicity (inhalation)
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard

: Not classified

: Not classified

: Not classified

: Not classified

pH: 4.5 – 7 at 20°C

: Not classified

pH: 4.5 – 7 at 20°C

: Not classified

: Not classified

: Not classified

: Not classified

: Not classified

: Not classified

: Not classified

MAGNESIUM CHLORIDE HEXAHYDRATE AR (7791-18-6)

Viscosity, kinematic

Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

Hazardous to the aquatic environment, short-term
(acute)

Hazardous to the aquatic environment, long-term
(chronic)

12.2. Persistence and degradability

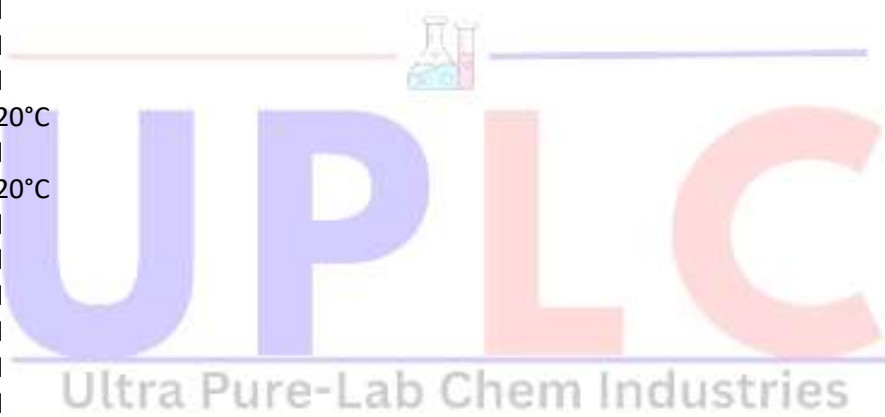
: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

: Not classified

: Not classified

No additional information available

12.3. Bioaccumulative potential





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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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1 UN number

UN-No. (ADR) : Not regulated

UN-No. (IMDG) : Not regulated

UN-No. (IATA) : Not regulated

UN-No. (ADN) : Not regulated

UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

Proper Shipping Name (ADN) : Not regulated

Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

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14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Packing group (ADN)

Packing group (RID)

14.5. Environmental hazards

: Not regulated

: Not regulated

Dangerous for the environment

Marine pollutant

Other information

14.6. Special precautions for user

: No

: No

: No supplementary information available

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol 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

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

MAGNESIUM CHLORIDE HEXAHYDRATE AR is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

MAGNESIUM CHLORIDE HEXAHYDRATE AR is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

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MAGNESIUM CHLORIDE HEXAHYDRATE AR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

MAGNESIUM CHLORIDE HEXAHYDRATE AR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

MAGNESIUM CHLORIDE HEXAHYDRATE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 259).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : MAGNESIUM CHLORIDE HEXAHYDRATE is listed

SZW-lijst van mutagene stoffen : MAGNESIUM CHLORIDE HEXAHYDRATE is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

BCF Bioconcentration factor

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BLV Biological limit value
BOD Biochemical oxygen demand (BOD)
COD Chemical oxygen demand (COD)
DMEL Derived Minimal Effect level
DNEL Derived-No Effect Level
EC-No. European Community number
EC50 Median effective concentration
EN European Standard
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LC50 Median lethal concentration
LD50 Median lethal dose
LOAEL Lowest Observed Adverse Effect Level
NOAEC No-Observed Adverse Effect Concentration
NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development
OEL Occupational Exposure Limit
PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
Abbreviations and acronyms:
SDS
STP
ThOD
TLM
VOC
CAS-No.
N.O.S.
Safety Data Sheet
Sewage treatment plant
Theoretical oxygen demand (ThOD)
Median Tolerance Limit
Volatile Organic Compounds
Chemical Abstract Service number
Not Otherwise Specified
vPvB
ED
Very Persistent and Very Bioaccumulative
Endocrine disrupting properties
Safety Data Sheet (SDS), EU

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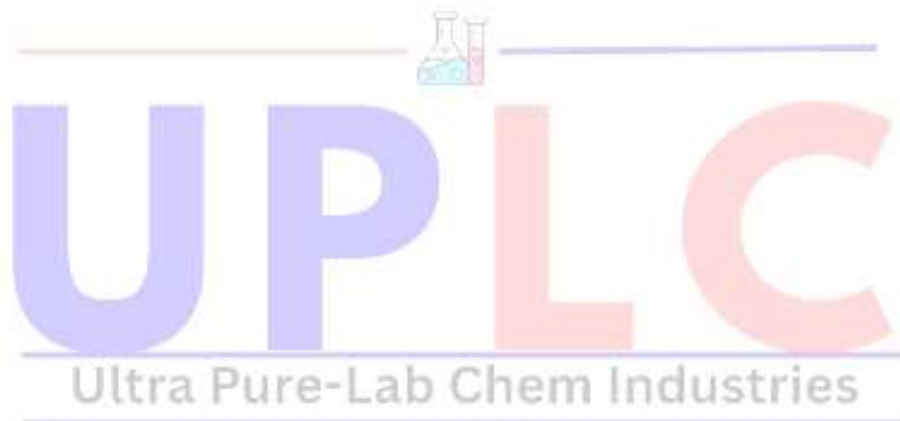
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