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Safety data sheet

according to 1907/2006/EC, Article 31 Printing date 07.04.2023 Version number 19 Revision: 03.04.2023 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Molecular formula: MGCl2·6H2O • Trade name: Magnesium chloride • SDS number: CH0887 · CAS Number: 7791-18-6 · EC number: 232-094-6 · Application of the substance / the mixture Chemicals products for laboratory • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: CARLO ERBA REAGENTS Chaussée du Vexin Parc d'Affaires des Portes - BP616 27106 VAL DE REUIL Cedex Téléphone: +33 (0)2 32 09 20 00 Télécopie: +33 (0)2 32 09 20 20 • Further information obtainable from: Q.A / Normative email: MSDS CER-SDS@cer.dgroup.it • 1.4 Emergency telephone number: Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel : 112 National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service) Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008
- The substance is not classified, according to the GB CLP regulation.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- CAS: 7791-18-6 Magnesium chloride hexahydrate

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· Identification number(s)

· EC number: 232-094-6

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information: No special measures required.

- After inhalation: Supply fresh air; consult a doctor in case of complaints.
- *After skin contact: Generally the product does not irritate the skin.*
- After eye contact: Wash with plenty of water.
- After swallowing: Drink plenty of water and provide fresh air.
- Information for doctor: Show the doctor this Material Safety Data Sheet.
- 4.2 Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture Hydrogen chloride (HCl)
- 5.3 Advice for firefighters
- · Protective equipment: Do not inhale gases in case or fire or combustion.
- · Additional information Keep receptacles cool with water spray.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

Provide suction extractors if dust is formed.

- 6.4 Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:*
- Unsuitable material for receptacle: aluminium.

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



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• 9.1 Information on basic physical and	chemical properties	
Molecular weight	203.31 g	
· Appearance:		
Form:	Crystalline	
Colour:	Colourless	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	117 °C	
Initial boiling point and boiling range	e: Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Product is not flammable.	
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· Decomposition temperature:	Not determined.	
· Ignition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
Density at 20 °C:	1.56 g/cm^3	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water at 20 °C:	1670 g/l	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity See 10.3

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Hydrogen chloride (HCl)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral LD50 8,100 mg/kg (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Ingestion: It can be harmfull if swallowed.
- · Inhalation: May be harmful if inhaled.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• Other information (about experimental toxicology): No further relevant information available.

- Target organ information
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*

· STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

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[•] Primary irritant effect:



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· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: Foreseeable as non relevant.
- · 12.2 Persistence and degradability No further relevant information available.
- · Method
- · Ecological information Not available
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Not known to be hazardous to water (German classification -WGK).
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation
- Smaller quantities can be disposed of with household waste.
- Reutilise if possible or contact a waste processors for recycling or safe disposal.
- · Uncleaned packaging:
- · Recommendation:
- Disposal must be made according to official regulations.
- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Chemical treatment of contaminated water.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	T 7 1	
ADR/RID, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
ADR/RID, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR/RID, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR/RID, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	



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• 14.6 Special precautions for user

Not applicable.

Not applicable.

• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

• UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

- · SARA Section 355 (extremely hazardous substances) Substance is not listed.
- SARA Section 313 (specific toxic chemical listings) Substance is not listed.
- Prop 65 Chemicals known to cause cancer Substance is not listed.
- · Chemical safety assessment
- · Named dangerous substances ANNEX I Substance is not listed.

· National regulations:

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Q.A./Normative

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation DNEL ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative IMO : International Maritime Oragnization · Sources Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, UK REACH, in the latest valid version. Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008, GB CLP, in the latest valid version. Globally Harmonized System, GHS ADR/RID, IMDG, IATA PubChem : an open chemistry database at the National Institutes of Health (NIH) ECHA : European CHemicals Agency GESTIS : Information system on hazardous substances of the German Social Accident Insurance • * Data compared to the previous version altered. .