



Safety Data Sheet

Date of Issue: 30.07.2021

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1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : ECP Limited
Address : PO Box 34125, Birkenhead, Auckland 0746
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Emergency phone number : 0800 243 622 (24 hours)

Product Name	Magnesium Sulfate, heptahydrate
Product Code	30721
CAS No.	10034-99-8

Recommended use : Laboratory Investigations

2: Hazard's identification

2.1 GHS Classification

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards - none

3: Composition/information on ingredients

3.1 Substances

Synonyms : Epsom salts
Formula : $MgO_4S \cdot 7H_2O$
Molecular weight : 246.47 g/mol
CAS-No. : 10034-99-8
EC-No. : 231-298-2

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

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 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 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

Sulfur oxides

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

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.

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.

7.3 Specific end use(s)

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

8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

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

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

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 : crystals, Fine crystals and fragments
Color : white

b) Odor : No data available

c) Odor Threshold : No data available

d) pH : 5.0 - 8.0 at 50 g/l(External MSDS)

e) Melting point/freezing point

Melting point : 1,124.0 °C

f) Initial boiling point-
and boiling range : No data available

g) Flash point : Not applicable

h) Evaporation rate : No data available

i) Flammability (solid, gas) : The product is not flammable.

j) Upper/lower flammability or-
explosive limits : No data available

k) Vapor pressure : 0.133 hPa at 20 °C - (External MSDS)

l) Vapor density : No data available

m) Relative density : No data available

n) Water solubility : 710 g/l at 20 °C - completely soluble

- o) Partition coefficient: n-octanol/water : Not applicable for inorganic substances
p) Autoignition temperature : No data available
q) Decomposition temperature : No data available
r) Viscosity
 Viscosity, kinematic : No data available
 Viscosity, dynamic : No data available
s) Explosive properties : No data available
t) Oxidizing properties : No data available

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

no information available

10.4 Conditions to avoid

Avoid dust generation

10.5 Incompatible materials

Incompatible/reactive with acids, strong oxidising agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

11: Toxicological information

11.1 General Information on possible routes of exposure:

- Ingestion : May cause a laxative effect if swallowed.
Eye contact : The dust may cause (physical) eye irritation due to particulate nature.
Skin contact : May cause skin irritation.
Inhalation : The dust may cause respiratory irritation.
Carcinogen Category : None

12: Ecological information

- 12.1 Ecotoxicity : No information available.
12.2 Persistence/Degradability : No information available.
12.3 Mobility : No information available.
12.4 Environmental Fate : Prevent entry into drains and waterways.
12.5 Bioaccumulation Potential : No information available.
12.6 Environmental Impact : No Data Available

13: Disposal considerations

13.1 General Information

Dispose of contents/container to a licensed disposal company, and in accordance with local/regional/national regulations.

Special Precautions for Land Fill

Contaminated packaging: Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	-	-	-
14.2	UN Proper Shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport Hazard Class	-	-	-
14.4	Packaging group	-	-	-
14.5	Environmental Hazards	No	No	No
14.6	Special precautions for user	none		
14.7	Incompatible materials	No information available.		

Further information

Not classified as dangerous in the meaning of transport regulations.

15: Regulatory information

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

National regulatory information

HSNO Approval Code: HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals

and Reagent Kits Group Standard 2006HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required, not required

Approved Handler Cert.: not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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