

Magnesium Chloride Flake

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

Product identifier

Product name: Magnesium Chloride Flake

Other means of identification: Magnesium Chloride Hexahydrate Flakes

Details of supplier of the safety data sheet

J C Peacock Company Limited

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2. Composition/information on ingredients

	<u>Range</u>
Magnesium Chloride (MgCl ₂)	46.5 – 47.5%
Calcium Chloride (CaCl ₂)	2.0 – 2.2%
Sodium Chloride (NaCl)	0.5 – 0.8%
Potassium Chloride (KCl)	0.2 – 0.5%
Water (H ₂ O)	Balance to 100%

CAS No. 7791-18-6

Calcium chloride is quite similar in its properties to magnesium chloride and at this concentration level may be considered as such for all articles in this MSDS.

3. Possible Hazards

Critical hazards to man and environment – Inapplicable, not classified as dangerous material

4. First aid Measures

Description of first aid measures

On Skin contact: Wash with water

On contact with eyes: Flush open eyes with plenty of water

On ingestion: Induce vomiting and consult physician

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Important Note: The information contained in this document is given in good faith and is to the best of suppliers Knowledge correct at the date of publication, but it is for the users to satisfy themselves of the suitability of the product for their purpose.

Magnesium Chloride Flake

5. Fire fighting measures.

Suitable extinguishing media: Inapplicable because not combustible

Special protective equipment: Not required

6. Accidental release measure

Personal precautions: No special measures required

Environmental precautions: Avoid contamination of water sources

Methods of cleaning up: Pick up mechanically and dispose according to point 13. Minor residue to be washed away with excessive water flow. Disposal of waste water according to regulations. If spilling occurs on public highways, wash thoroughly with water and absorbent should be applied (i.e. sand) to prevent skidding on a slippery surface.

7. Handling and storage

Handling: Prevent contact with water or humid atmosphere

Protection against fire and Explosion: No special demands because not combustible

Storage: Keep tray in storage, avoid moisture

8. Personal protection

Personal protective equipment

Respiratory protection: Dust mask under strong dust development

Hand protection: Rubber gloves recommended if exposed for a long time

Eye protection: Safety goggles only under strong dust development

Body protection: Not required

9. Physical and chemical properties

Form: Flakes

Colour: White

Odour: none

Change in physical state: Hygroscopic

Flash point: not applicable because not combustible

Explosion hazard: not applicable

Density (20°C): 1.6 gr/cm³

Bulk density: 800 – 900kg/m³

Solubility in water (20°C): 167g/100 ml water

pH value: 8.2/ at 10% in aqueous solution

Magnesium Chloride Flake

10. Stability and reactivity

Hazardous decomposition products: Above 160°C decomposes giving HCL gases

Hazardous reactions: none

11. Toxicological information

Acute toxicity: LD50/oral/rat – 8100mg/kg

Primary irritation (skin/eyes): no data available

Sensitizing: no sensitizing on human beings

Experiences in humans: none

Additional information: If handled according to regulations no danger to human beings.

12. Ecological information

Behaviour and environmental

If properly introduced in small concentrations into adapted biological sewage treatment plants, decomposition of the activated sludge is not affected.

Ecotoxic effects

Not available

Not mentioned in the EC regulations of 4/5/76 concerning discharge of dangerous materials into the water, neither List I or List II.

MgCl₂ is a component of sea water

13. Disposal consideration

Product

Transfer to suitable waste deposit, thereby observing local laws and regulations (special waste or underground deposits).

Contaminated packaging

Contaminated bags should be emptied thoroughly; after proper cleaning they can be recycled.

14. Transport information

Is not a hazardous material according to the transport regulations.

15. Regulatory information

Labelling according to EEC Directives

No specific marking required according to EC-Regulations 67/548

National legislation/regulations

Directive in case of accidents not mentioned

Regulations on dangerous materials not mentioned

Technical directives concerning air not mentioned

In the catalogue of water jeopardizing products of June 12, 1987 in class WGK (0)

16. Other information

The information contained herein is based on our present knowledge and is not meant to guarantee product properties.

Recipients of our product must take responsibility for observing existing laws and regulations.