



# MSDS - Magnesium Sulphate Monohydrate

Issued October 10, 2006

## Section 1. Product Information

Product Name: Magnesium Sulphate Monohydrate

Formula:  $MgSO_4 \cdot H_2O$

CAS No: 14567-64-7

Dangerous Goods Classification: None allocated

Product Use: Included in fertilizers

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency (Canutec): 613-996-6666

## Section 2. Toxicological Properties

Swallowed: Acts like a laxative. Ingestion of sufficient quantities may lead to heart changes, flaccid paralysis and cyanosis.

Skin: No significant effects

Eyes: Mild irritant effect may result

Inhaled: Not applicable

Health Effects: Not available

## Section 3. Physical Data

Material at Normal Conditions: Solid

Appearance and Colour: Grey granular powder

Odor Threshold: Odourless

Boiling Point: Not available

Flash Point: Not available

Melting Point: Not available

Solubility in Water: Miscible

Specific Gravity: Not available

Molecular Weight: Not identified

Lower & Upper Explosion Limit: Not available

pH: 6 - 8

Volatiles by Volume (at 20oC): Not available

#### **Section 4. Fire or Explosion Hazard**

Fire/Explosion: Not combustible. Stable under normal conditions. Emits toxic fumes of oxides of sulphur (if heated to dryness).

Fire Extinguishing Procedures: Fire fighters should wear full protective clothing including self contained breathing apparatus. In case of fire, use water, dry powder, foam, carbon dioxide (CO<sub>2</sub>)

#### **Section 5. Precautions for Use**

Exposure Standards: None established

Engineering Controls: Use with adequate ventilation. Avoid generating and inhaling dusts

Flammability: Non combustible material

Skin Protection: Wear rubber or plastic gloves. Wear lightweight protective clothing.

Eye Protection: Wear safety glasses.

#### **Section 6. Safe Handling**

Storage/Transport: Store in dry location. No special storage conditions required

#### **Section 7. Spills and Disposal**

Spills: Clean up personnel should wear full protective clothing including apparatus. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal. Rinse affected area with plenty of water.

Disposal: Must be treated according to local and national regulations.

#### **Section 8. First Aid Measures**

Inhalation: Not applicable

Ingestion: Rinse out mouth with plenty of water and drink plenty of water. Consult a doctor if

necessary.

Skin: Wash off immediately with soap and plenty of water. Consult a doctor if necessary.

Eyes: Instantly wash with plenty of water and rinse thoroughly, also under the eyelids.

First Aid Facilities: Ensure an eyewash bath and safety shower are available and ready for use.

Advice to Doctor: Treat symptomatically based on judgement of doctor and individual reactions of patient.

Toxicity Data: Human, oral TDLo: 420mg/kg. Leads to muscle weakness. Acts like a laxative.

Oral Mouse LDLo: 5g/kg

## **Section 9. Transport Information**

UN No. Not available

Class: Not allocated

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