





## National Transport Commission (Australia)

### Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Magnesium Sulphate Heptahydrous	10034-99-8	100.00 %

## 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

<b>Swallowed</b>	Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention
<b>Eye</b>	Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.
<b>Skin</b>	Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.
<b>Inhaled</b>	Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Advice to Doctor</b>	Treat symptomatically based on individual reactions of patient and judgement of doctor.

### Medical Conditions Aggravated by Exposure

No information available on medical conditions which are aggravated from exposure to this product

## 5. FIRE FIGHTING MEASURES

### General Measures

Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

### Flammability Conditions

Product is a non-flammable solid.

### Extinguishing Media

Water, dry powder, foam, carbon dioxide.

### **Hazardous Products of Combustion**

Heating to dryness will produce obnoxious and toxic fumes.

### **Special Fire Fighting Instructions**

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment

### **Personal Protective Equipment**

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

<b>Flash Point</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

## **6. ACCIDENTAL RELEASE MEASURES**

### **General Response Procedure**

Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.

### **Clean Up Procedures**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

**Decontamination** Rinse affected area with plenty of water.

### **Environmental Precautionary Measures**

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

## **7. HANDLING AND STORAGE**

### **Handling**

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

### **Storage**

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

### **Container**

Store in original packaging as approved by manufacturer.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>General</b>	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m <sup>3</sup> (for inspirable dust) and 3mg/m <sup>3</sup> (for respirable dust).
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available on biological limit values for this product.
<b>Engineering Measures</b>	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
<b>Personal Protection Equipment</b>	
	RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716).
	EYES: Safety glasses with side shields (AS1336/1337).
	HANDS: Wear rubber or plastic gloves (AS2161).
	CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline Powder
Odour	Almost odourless
Colour	White
pH	6 - 8
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	200oC
Melting Point	150oC
Freezing Point	No Data Available
Solubility	70 g / 100 cc (20 ?) - 91 g / 100 cc (40 ?)
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	1.08

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Product is a non-flammable solid.
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<b>Chemical Stability</b>	Product is stable under normal conditions of use, storage and temperature.
<b>Conditions to Avoid</b>	Avoid excessive heat, generating dust, direct sunlight, moisture and high temperatures.
<b>Materials to Avoid</b>	Incompatible with strong oxidising agents, bases, mineral acids and sources of ignition.
<b>Hazardous Decomposition Products</b>	
Main combustion gas: sulfur oxides (SO <sub>x</sub> ), metal oxides.	
<b>Hazardous Polymerisation</b>	
Hazardous Polymerisation has not been reported.	

## 11. TOXICOLOGICAL INFORMATION

<b>Eye/Irritant</b>	Mild eye irritation may result.
<b>Ingestion</b>	Acts like a laxative. Ingestion of sufficient quantities may lead to heart changes, flaccid paralysis & cyanosis.
<b>General Information</b>	
<b>Skin:</b>	Not sensitizing
<b>Carcinogen Category</b>	No Data Available

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Fish LC50 ( <i>Gambusia affinis</i> , 24 hours): 15500 mg/l Crustacea EC50 ( <i>Daphnia magna</i> ): 1700 mg/l Algae EC50 ( <i>Scenedesmus subspicatus</i> ): 2700 mg
<b>Persistence/Degradability</b>	Not biodegradable.
<b>Mobility</b>	Completely miscible in water.
<b>Environmental Fate</b>	Do NOT allow product to reach waterways, drains and sewers.
<b>Bioaccumulation Potential</b>	No information available on bioaccumulation for this product.
<b>Environmental Impact</b>	No Data Available

## 13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

## 14. TRANSPORT INFORMATION

<b>Land Transport (Australia)</b>	
Proper Shipping Name	Magnesium Sulphate Heptahydrate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available



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**15. REGULATORY INFORMATION**

**General Information**            No Data Available

**Poisons Schedule (Aust)**    Not scheduled

**National/Regional Inventories**

Australia (AICS)                Listed

**16. OTHER INFORMATION**

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**STATEMENT OF DISCLAIMER:**

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

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