



# MATERIAL SAFETY DATA SHEET

Date Issued: 14/10/2003

**CLASSIFIED AS DANGEROUS GOODS (CLASS 5.1) UNDER AUSTRALIAN WORKSAFE REQUIREMENTS**

## SECTION I - PRODUCT IDENTIFICATION

Product trade name: MAGNISAL  
Chemical name: Magnesium nitrate, 6-hydrate  
Chemical family: Magnesium nitrate  
CAS No.: 13446-18-9  
U.N. No.: 1474  
Formula:  $Mg(NO_3)_2 \cdot 6H_2O$   
Common Synonyms: Magnesium (II) Nitrate; Nitric Acid, Magnesium Salt.

### Hazard rating:

Health: Moderate  
Flammability: None  
Reactivity: Moderate

### Components:

Magnesium nitrate, 6-hydrate

## SECTION II - HAZARDOUS INGREDIENTS

None

## SECTION III - PHYSICAL DATA

Formula weight: 256  
Appearance: White flakes  
Decomposition temp.: 330°C  
Melting point: 89°C  
Bulk density: 0.7 gr/cm<sup>3</sup>  
Boiling point: N/A  
Vapor pressure (mm Hg): N/A  
Evaporation rate: N/A  
pH (1% sol. in water): 5.5-6.5

## SECTION IV - HEALTH HAZARD INFORMATION

### Effects of Exposure (Systems)

Acute systemic: Ingestion - Moderate  
Inhalation - Moderate  
Acute local: Unknown  
Chronic local: Unknown  
Chronic systems: Ingestion - Moderate  
Inhalation - Moderate

Toxicology - Large amounts taken by mouth may have serious or even fatal effects. The symptoms are dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse. Small repeated doses might lead to weakness, general depression, headache and mental impairment.

### Emergency and first aid procedures:

Eyes: Flush eyes immediately with water for 15 minutes  
If irritation persists, consult a physician.  
Skin: Wash with mild soap and water.  
Inhalation: Remove to fresh air.  
Ingestion: Drink plenty of water.  
Induce vomiting.

## SECTION V - FIRE AND EXPLOSION HAZARD DATA

Fire hazard - Magnisal is a moderate oxidizer.  
Fire fighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.  
Avoid contact with organic matter and oxidizable materials.  
Flash point: N/A  
Extinguishing media: Use water  
Explosion hazard: The material is insensitive to impact.

## SECTION VI - REACTIVITY DATA

Stability: Stable in normal use and storage  
Incompatibility: With oxidizable materials, such as organic compounds and reducing agents.  
Hazard decomposition byproducts: Nitrous and nitric oxides.  
Hazard polymerization: None  
Conditions to avoid: Avoid contact with organic and oxidizable material, and avoid heat.

## SECTION VII - SPILL OR LEAK PROCEDURES

Wear self-contained breathing apparatus and full protective clothing.  
Keep combustibles (wood, paper, oil, etc.) away from spilled materials. With clean shovel, carefully place material into clean, dry container and cover: remove from area. Flush spilled area with water.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation- Use adequate general or local exhaust ventilation to keep fume and dust levels as low as possible.  
Respiratory protection - None required where adequate ventilation conditions exist. If air borne concentration is high, use an appropriate respirator or dust mask.  
Eye/skin protection - Safety glasses with side shields, uniform, proper gloves are recommended.

## SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing  
- Store in a dry place. Wooden floor is not acceptable.  
- Do not store with flammable and other oxidizable substances.

### International (I.M.O.):

**Proper shipping name: Magnesium nitrate Hexahydrate**

**Hazard class: CLASS 5.1, UN No 1474, Label Oxidising Agent.**

### 24 hours emergency number:

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