



MATERIAL SAFETY DATA SHEET

Date Issued: 20/05/2002

SECTION I - PRODUCT IDENTIFICATION

Product trade name: MAGNISAL
Chemical name: Magnesium nitrate, 6-hydrate
Chemical family: Magnesium nitrate
CAS No.: 13446-18-9
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: 0.67 Kg/liter
Boiling point: N/A
Vapor pressure (mm Hg): N/A
Evaporation rate: N/A
pH (1% sol. In water): 5.5-6.5

24 hours emergency number:

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The information herein is supplied in good faith, but no warranty, explicit or implied is made.

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 emesis.

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: Not good of class 5.1 (ADR marginal 2514,
RIDmarginal 500(9) and 514.