

# LTS Research Laboratories, Inc. Safety Data Sheet Magnesium Nitride

## 1. Product and Company Identification

Trade Name: Magnesium nitride

Chemical Formula: Mg<sub>3</sub>N<sub>2</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

### 2. Hazards Identification

Signal Word: Danger



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation

H228: Flammable solid

H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor.

P264: Wash face hands and any exposed skin thoroughly after

handling.

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking.

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P304+P312: IF INHALED: Call a POISON CENTER or

doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse. P370+P378: In case of fire: Use CO<sub>2</sub> or dry chemical or foam for

P3/0+P3/8: In case of fire: Use  $CO_2$  or dry chemical or loam for

extinction.

P403+P233: Store in a well ventilated place. Keep container tightly

closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 2 Physical:

3. Composition

Chemical Family: Ceramic

Additional Names: Trimagnesium dinitride

Magnesium nitride (Mg<sub>3</sub>N<sub>2</sub>):

Percentage: 100 wt% CAS #: 12057-71-5 EC #: 235-022-1

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Seek immediate medical attention.

Ingestion: Clean mouth immediately with plenty of water. Seek immediate

medical attention.

Wash affected area with mild soap and water. Remove any Skin:

contaminated clothing. Seek immediate medical attention.

Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek

immediate medical attention.

5. Firefighting Measures

Flammability: Flammable

Extinguishing Media:

Eyes:

Do not use water for metal fires – use CO<sub>2</sub>, sand, extinguishing powder. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled:

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

**Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage

**Handling Conditions:** Handle under dry protective gas. Wash thoroughly after handling.

Store in a cool dry place in a tightly sealed container. Store under dry **Storage Conditions:** 

protective gas. Store apart from materials and conditions listed in

section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

**Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Beige

Form: Powder, Pieces, Sputtering target

Odor: N/A

Redearch Water Solubility: Insoluble ratorias, Inc.

**Boiling Point:** N/A Melting Point: 800°C Flash Point: N/A Autoignition Temperature: N/A

Density: 2.712 g/cc Molecular weight: 100.93 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents **Incompatible Conditions:** Air, Water/moisture

Hazardous Decomposition Products: Metal oxide fume, Nitrogen oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: Causes skin irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Inhalation of magnesium compounds may cause metal fume fever.

Metallic magnesium which perforates the skin may cause local lesions. Some magnesium salts have produced muscle weakness, cardiac arrhythmias, respiratory effects and changes in blood chemistry

following ingestion.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.

FLARIMABLE SOLID

Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Magnesium nitride)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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