

LTS Research Laboratories, Inc. Safety Data Sheet Zircodent (MgF₂-NdF₃)

1. Product and Company Identification

Trade Name: Zircodent Chemical Formula: MgF₂-NdF₃

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 #: 845-587-2436 / 845-lts-chem

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection

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

P302+P352 – If on skin: wash with plenty of water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

None

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Physical: 1

| 3. Composition | | | |
|---|---|--|--|
| Chemical Family: | Fluoride salt | | |
| Additional Names: | Magnesium fluoride neodymium fluoride | | |
| Magnesium fluoride (MgF ₂): | | | |
| Percentage: | 0-99 wt% | | |
| CAS #: | 7783-40-6 | | |
| EC#: | 231-995-1 | | |
| Neodymium fluoride (NdF ₃): | 0.00+0/ | | |
| Percentage: CAS #: | 0-99 wt% 13709-42-7 | | |
| EC#: | 237-253-3 | | |
| | 4. First Aid Procedures | | |
| | | | |
| General Treatment: Special Treatment: | Seek medical attention if symptoms persist. None | | |
| Important Symptoms: | None | | |
| important Symptoms. | None | | |
| Inhalation: | Remove victim to fresh air. Supply oxygen if breathing is difficult. | | |
| Ingestion: | Seek Medical Attention. | | |
| Skin: | Wash affected area with mild soap and water. Remove any | | |
| | contaminated clothing. | | |
| Eyes: | Flush eyes with water, blinking often for several minutes. Remove | | |
| | contact lenses if present and easy to do. Continue rinsing | | |
| | 5. Firefighting Measures | | |
| Flammability: | Non-flammable | | |
| Extinguishing Media: | No special restrictions – use suitable extinguishing agent for | | |
| | surrounding material and type of fire. | | |
| 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 | | |
| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in | | |
| • | 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: | Wash thoroughly after handling. | | |
| Storage Conditions: | Store in a cool dry place in a tightly sealed container. Store apart from | | |
| XX71-/(Xx | 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 | | |
| Ventilation: | compressed air. Provide sufficient ventilation to maintain concentration at or below | | |
| · Circulation. | threshold limit. | | |
| | | | |

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2.5 mg/m³ as F, long-term value Threshold Limit Value: 2.5 mg/m³ as F, long-term value

Special Equipment: None

Respiratory Protection: **Dust Respirator Not required Protective Gloves:** Rubber gloves Not required Eve Protection: Safety glasses or goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stable under recommended storage conditions Stability:

Oxidizing agents, acids Reacts With: **Incompatible Conditions:** Water, moisture

Hazardous Decomposition Products: Metal oxide fume, Hydrogen fluoride (HF),

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin: Causes irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: 2330 mg/kg for rat by mouth

Carcinogen: ACGIH A4: Not classifiable as a human carcinogen: Inadequate data

on which to classify the agent in terms of its carcinogenicity in humans

and/or animals.

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. | | , and international regulations. |
| | 14. Transportation Data | |
| Hazardous: | Not hazardous for transportation. | |
| Hazard Class: | N/A | |
| Packing Group: | N/A | |
| UN Number: | N/A | |

N/A

15. Regulatory Information

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

Proper Shipping Name:

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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