

# LTS Research Laboratories, Inc. Safety Data Sheet Zinc Nitrate Hexahydrate

## 1. Product and Company Identification

Trade Name: Zinc Nitrate Hexahydrate

Chemical Formula:  $Zn(NO_3)_2 \cdot 6H_2O$ 

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:** 

H272: May intensify fire; oxidizer H302: Harmful if swallowed H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

**Precautionary Statements:** 

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

P220: Keep/Store away from clothing/combustible materials P221: Take any precaution to avoid mixing with combustibles

P261: Avoid breathing dust/fume/vapor P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area

P273: Avoid release to the environment

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

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with soap and water

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 P337+P313: If eye irritation persists get medical advice/attention P362: Take off contaminated clothing and wash before reuse P370+P378: In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

P391: Collect spillage

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: 1 Physical: 2

3. Composition Chemical Family: Inorganic compound Additional Names: N/A Zinc nitrate hexahydrate (Zn(NO<sub>3</sub>) 2·6H<sub>2</sub>O): Percentage: 0-100 wt% CAS#: 10196-18-6 EC #: 231-943-8 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Flammable Research No special restrictions – use suitable extinguishing agent for Extinguishing Media: 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 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: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. 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:
Protective Gloves:

Dust Respirator
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 White

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

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:
N/A
N/A
N/A
N/A

Molecular weight: 297.46 g/mol

#### 10. Reactivity

Stability: Oxidizer, hygroscopic

Reacts With: Strong oxidizing agents, strong reducing agents

Incompatible Conditions: Excess heat, combustible material, dust formation, exposure to moist

air or water

Hazardous Decomposition Products: Nitrogen oxides, Zinc/Zinc oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: Harmful if swallowed

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: Mucosal irritations, cough, shortness of breath

Aggravated Medical Conditions: Damage of respiratory tract, lung edema

Median Lethal Dose: 2,000 mg/kg for rat by mouth

Carcinogen: N/A

#### 12. Ecological Information

Aquatic Toxicity: Toxic to aquatic life with long lasting effects

Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: N/A

Notes: Hazard for drinking water supplies. Discharge into the environment

must be avoided.

### 13. Disposal Considerations

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

#### 14. Transportation Data

Hazardous: Hazardous



Hazard Class: 5.1 Packing Group: II

UN Number: UN1514
Proper Shipping Name: Zinc nitrate

### 15. Regulatory Information

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

#### 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.

Document Last Revised: 07/12/2022