

# LTS Research Laboratories, Inc. Safety Data Sheet Nickel Zinc

### 1. Product and Company Identification

Trade Name: Nickel zinc Chemical Formula: NiZn

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:

H260: In contact with water releases flammable gases which may ignite spontaneously

H319 Causes serious eye irritation

H317: May cause an allergic skin reaction

H228: Flammable solid

H351: Suspected of causing cancer H335: May cause respiratory irritation

H372: Causes damage to organs through prolonged or repeated

exposure

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P280+P284: Wear protective gloves/protective clothing/eye

protection/face protection/respiratory protection

P231+P232: Handle under inert gas. Protect from moisture P210: Keep away from heat/sparks/flames – No smoking

P370+P378: In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder for

extinction

P363: Wash contaminated clothing before reuse

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

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

Bulk

HMIS Health Ratings (0-4): Powder Health: 1

 Health:
 1
 1

 Flammability:
 3
 0

 Physical:
 2
 0

3. Composition	
Chemical Family: Additional Names:	Metal alloy None
Nickel (Ni):	
Percentage:	0-100 wt%
CAS #:	7440-02-0
EC #:	231-111-4
Zinc (Zn):	
Percentage:	0-100 wt%
CAS #:	7440-66-6
EC #:	231-175-3
	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.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Even	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, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO <sub>2</sub> , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective
Spec. The Fighting Flocedure.	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:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
*** . **	inert 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
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below
· Carrieron	threshold limit.

### 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 1 mg/m³ as Ni, long-term value Threshold Limit Value: 1.5 mg/m³ as Ni, long-term value

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 N/A

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

Odor: **Odorless** 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

Stability: Stable under recommended storage conditions
Reacts With: Oxidizing agents, Halogens, Acids, Bases

Incompatible Conditions: Protect against electrostatic charges, Air, Water/moisture

Hazardous Decomposition Products: Metal oxide fume, Nickel oxides, Iron oxides

## 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

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

Median Lethal Dose: 30000 mg/kg for rat by mouth

Carcinogen: IARC-2B: Possibly carcinogenic to humans: limited evidence in human

in the absence of sufficient evidence in experimental animals.

NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of

carcinogenicity from epidemiologic studies.

EPA-I: Data are inadequate for an assessment of human carcinogenic

potential.

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No

Very Persistent, Very Bioaccumulative: No Notes: Ver

Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



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

explosives boratorias inc

Packing Group: II UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Nickel zinc)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

No

No

No

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.

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