

## LTS Research Laboratories, Inc. Safety Data Sheet Nickel (II) iodide

## 1. Product and Company Identification

Trade Name: Nickel (II) iodide

Chemical Formula: NiI<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: H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

H341: Suspected of causing genetic defects

H350: May cause cancer.

H360: May damage fertility or the unborn child.

H372: Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: inhalative.

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

P272: Contaminated work clothing should not be allowed out of the

workplace.

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

protection.

P284: Wear respiratory protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water. P308+P313: IF exposed or concerned: Get medical advice/ attention. P333+P313: If skin irritation or rash occurs: Get medical advice/

attention.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician

P363: Wash contaminated clothing before reuse.

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: 0
Physical: 1

3. Composition	
Chemical Family:	Salt
Additional Names:	Nickel diiodide
Nickel (II) iodide (NiI <sub>2</sub> ):	
Percentage:	100 wt%
CAS #:	13462-90-3
EC #:	236-666-6
	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.
Ingestions	Keep patient warm. Seek immediate medical attention.  Seek immediate medical attention.
Ingestion: Skin:	Immediately wash affected area with mild soap and water. Remove any
DAIII.	contaminated clothing. Seek immediate medical attention.
Eyes:	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:	Non-flammable
Estimatichia Madia	Research
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. Keep unprotected persons away. 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
	<del> </del>
Handling Conditions:	Avoid contact with skin and eyes. Wash thoroughly after handling.
Handling Conditions: Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert
	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and
	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and water, exposure to light. Store apart from materials and conditions
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and water, exposure to light. Store apart from materials and conditions listed in section 10.
	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and water, exposure to light. Store apart from materials and conditions listed in section 10.  Do not use tobacco or food in work area. Wash thoroughly before
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and water, exposure to light. Store apart from materials and conditions listed in section 10.  Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from water/moisture, oxidizing agents. Store in the dark. Store under inert gas. This product is moisture sensitive. Protect from humidity and water, exposure to light. Store apart from materials and conditions listed in section 10.  Do not use tobacco or food in work area. Wash thoroughly before

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 1 mg/m<sup>3</sup> as Ni, long-term value

Threshold Limit Value: 0.1 mg/m³ as Ni, inhalable fraction, long-term value

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

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 Black

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

Odor: **Odorless** Water Solubility: 1,242 g/l**Boiling Point:** N/A Melting Point: 797°C Flash Point: N/A Autoignition Temperature: N/A Density: 5.83 g/cc Molecular weight: 312.51 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, bases, strong acids, alkali metals, alkaline earth

metals

Incompatible Conditions: Light, water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen iodide, iodine, nickel/nickel oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause an allergic skin reaction.

Ingestion: May cause irritation

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Chronic: Causes damage to the lung, the kidneys and the liver through prolonged

or repeated exposure. Route of exposure: inhalative. Prolonged

exposure to iodides may produce skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples, boils, redness, black and blue spots, hives and blisters. Iodides are readily diffused across the placenta. Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. They may also cause intestinal disorders, convulsions and asphyxia. Airborne nickel contaminated dusts are regarded as carcinogenic to the respiratory tract.

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

Median Lethal Dose: N/A

Carcinogen: May cause cancer.

IARC: 1 - Group 1: Carcinogenic to humans (Nickel (II) iodide)

NTP: Known to be human carcinogen (Nickel (II) iodide)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes:

Very toxic to aquatic organisms.

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

governmental permits.

Do not allow product to reach ground water, water course or sewage

system, even in small quantities. Avoid transfer into the environment.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.

koratorias, Inc.

Research



Hazard Class: 8 Corrosive substances

Packing Group: II UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Nickel (II) iodide)

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.

Document Last Revised: 08/28/2019