

## GHS Safety Data Sheet

SDS No. : NIE01GAEG

Date Issued : 2004/11/23

Last updated : 2023/01/09

### Section 1. Identification of the substance or mixture and of the supplier

#### Product Information

Product name: Ni      Nickel

Product number:	Purity	Form	Size or Shape mm
NIE01GB	99.9%(3N)up	grains, ball	ca. $\phi$ 8~15
NIE03GB	3Nup	grains, irregular form	2~5
NIE19GB	99.99%(4N)	grains, ball	ca. $\phi$ 10
NIE03WB	3Nup	wire	$\phi$ 0.5
NIE02WB	3Nup	wire	$\phi$ 1
NIE02RB	3Nup	tablets	$\phi$ 20×t5
NIE11RB	4N	tablets	$\phi$ 10×t5
NIE05RB	4N	tablets	$\phi$ 20×t5
NIE10RB	4N	tablets	$\phi$ 10×t10
NIE01CB	3Nup	chips	5×5×t1
NIE02CB	3Nup	chips	10×10×t1
NIE03CB	4N	chips	5×5×t1
NIE04CB	4N	chips	10×10×t1
NI004	3Nup	sheet	100×100×t1
NI005	3Nup	sheet	100×100×t2
—	3N others	tablets	Various sizes, Various shapes
—	3N others	rod	Various sizes, Various shapes
—	4N others	grains, wire-cut	$\phi$ 2×L2 (mm) others
—	4N others	grains	$\phi$ 2×L2 (mm) others
—	4N others	sheet	Various sizes, Various shapes

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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Recommended uses and restrictions on use: For research purposes

### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Respiratory sensitization : Category 1 Skin sensitization : Category 1 Carcinogenicity : Category 2 Specific target organ toxicity, single exposure : Category 1 Specific target organ toxicity, repeated exposure : Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: C



Pictograms or symbols:



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**Warning word: DANGER**

Hazard information	Description of precaution
<p><b>May cause allergy or asthma symptoms or breathing difficulties if inhaled</b></p> <p><b>May cause an allergy skin reaction</b></p> <p><b>Suspected of causing cancer</b></p> <p><b>Causes damage to organs (respiratory system, kidney)</b></p> <p><b>Causes damage to organs through prolonged or repeated exposure (respiratory system)</b></p>	<p>Obtain special instructions. Read and understand all safety precautions before handling.</p> <p>Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.</p> <p>Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.</p> <p>Take off the contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.</p> <p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Store locked up.</p> <p>Dispose of contents/ container in accordance with local/national regulations.</p>

### Section 3. Composition / information on ingredients

Chemical or common name:	Nickel
Chemical formula:	Ni
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7440-02-0
RTECS#:	QR5950000
TSCA inventory :	listed
EINECS:	2311114

### Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

### Section 5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	The product is not combustible. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

### Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.



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Method for containment and cleaning up:

Indoor leakage: Ventilate as much as possible until the cleaning is completed.

Outdoor leakage: Work from the windward and evacuate the leeward crowd.

Gather up, pack in closed container as much as possible.

Carefully collect remnant and move to a safe place.

## Section 7. Handling and storage

### Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Avoid prolonged or repeated exposure.

### Precautions to be taken in storage:

General precautions: Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from incompatible materials.

## Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2019) : TLV-TWA 1.5 mg/m<sup>3</sup> (I)

OSHA (2006) : PEL-TWA 1mg/m<sup>3</sup>

I: Inhalable particles

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

## Section 9. Physical and chemical properties

Color and Form: Silver white solid, odorless

Chemical formula: Ni

Formula weight: 58.7

Melting point: 1453 °C

Boiling point: 2732 °C

Specific gravity: 8.902 g/cm<sup>3</sup>

Solubility: Insoluble; water

Soluble; hydrochloric acid, sulfuric acid, diluted nitric acid

Flammability: Non-combustible substance

Oxidation: None

## Section10. Stability and reactivity

Stability: Stable in closed container under room temperature.

Reactivity

Incompatibility: Oxidizing agents, acids, sulfur

## Section11. Toxicological information

Acute toxicity(Oral): GHS : Not classified  
Oral rat LD<sub>50</sub> > 9000 mg/kg (ECETOC TR №33(1989))

Skin corrosive / irritation: GHS : No data available

Serious eye damage / irritation: GHS : No data available

Respiratory sensitization: GHS : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin sensitization: GHS : Category 1 ; May cause an allergy skin reaction

Germ cell mutagenicity: GHS : No data available



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Carcinogenicity: GHS : Category 2 ; Suspected of causing cancer

Carcinogenicity:

Chemical Name	ACGIH (2019)	IARC (2022)	NTP (2021)
Nickel	A5	2B	R

ACGIH A5 Not suspected as a Human Carcinogen

IARC 2B The agent is possibly carcinogenic to humans

NTP R Reasonably Anticipated to be Human Carcinogens

Reproductive toxicity: GHS : No data available

Specific target organ toxicity

– single exposure: GHS : Category 1 ; Cause damage to organs  
(respiratory system, kidney)

– repeated exposure: GHS : Category 1; Cause damage to organs through prolonged or  
repeated exposure (respiratory system)

Aspiration hazard: GHS : No data available

## Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

– acute toxicity: GHS : No data available

– chronic toxicity: GHS : No data available

Hazardous to the ozone layer GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

## Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed  
'Industrial Waste Haulers' for disposal of waste.

## Section 14. Transport information

UN classification: Not hazardous

UN number: None

HS code: 7505.11(bars, rods and profiles),  
7505.21(wire),  
7506.10(plates, sheets, strip and foil)

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

## Section 15. Regulatory information

TSCA inventory: Listed.

Please refer to any other local / national measures that may be relevant.

## Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.



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Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.



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