

## GHS Safety Data Sheet

SDS No. : NIE01PAEG

Date Issued: 2003/10/22

Last Up Date: 2018/09/07

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

#### 1.1 Product Information

Product name: Ni Nickel

| Product number: | Purity        | Form        | Size ( $\mu$ m) |
|-----------------|---------------|-------------|-----------------|
| NIE02PB         | —             | fine powder | 2~3             |
| NIE03PB         | —             | fine powder | 3~5             |
| NIE04PB         | —             | powder      | ca.10           |
| NIE05PB         | 99% (2N) up   | powder      | $\leq 150$      |
| NIE07PB         | 99.9% (3N)    | powder      | $\leq 150$      |
| NIE08PB         | 99.9% (3N)    | powder      | $\leq 63$       |
| NIE10PB         | 99.9% (3N)    | fine powder | 2~3             |
| NIE11PB         | 99.9% (3N)    | fine powder | 3~5             |
| NIE16PB         | 99.9% (3N) up | powder      | $\leq 180$      |
| NIE17PB         | 99.9% (3N) up | powder      | $\leq 75$       |
| NIE18PB         | 99.9% (3N) up | powder      | $\leq 53$       |

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

### Section 2. Hazards identification

#### GHS Classification

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

GHS Label: C



Pictograms or symbols

Warning word: DANGER

#### Hazard information

May cause allergy or asthma symptoms or  
breathing difficulties if inhaled  
May cause an allergic skin reaction

#### Description of precaution

Obtain special instructions. Read and understand all safety  
precautions before handling.  
Wear protective gloves / protective clothing/eye protection / respiratory  
protection / face protection during handling.

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suspected of causing cancer</b><br><b>Causes damage to organ</b><br><b>(Respiratory organs, kidney)</b><br><b>Causes damage to organ (Respiratory organs)</b><br><b>through prolonged or repeated exposure.</b> | Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.<br>Take off the contaminated clothing and wash before reuse.<br>Contaminated work clothing should not be allowed out of the workplace.<br>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>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. Call a POISON CENTER or doctor/physician if you feel unwell.<br>Store locked up.<br>Dispose of contents/ container in accordance with local/national regulations. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Additional hazard information :**

With respect to additional hazard information, see Section 11.

### 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.<br>Contact physician if irritation continues.                    |
| Inhalation:   | Remove the exposed person immediately and provide fresh air.<br>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.<br>Self-contained breathing apparatus and full protective clothing should be used, if this product 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 dusts/ fume.                                                                                                                                                            |
| Environmental hazard precautions:       | Shut off leak if without risk.<br>Prevent flow out to river, etc. so as not to badly affect.                                                                                                                                                                                 |
| Method for containment and cleaning up: | Indoor leakage: Ventilate as much as possible until the cleaning is completed.<br>Outdoor leakage: Work from the windward and evacuate the leeward crowd.<br>Gather up, pack in closed container as much as possible.<br>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 (2013) : Ni TLV-TWA 1.5 mg/m<sup>3</sup> (Inhalable particles)  
OSHA (2006) : Ni PEL-TWA 1 mg/m<sup>3</sup>

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, impervious gloves, protective wear, protective boots.

## Section 9. Physical and chemical properties

Color and Form: Silver-white metal.

Chemical formula: Ni

Atomic weight: 58.69

Melting point: 1453 °C

Boiling point: 2732 °C

Density: 8.902 g/cm<sup>3</sup>

Solubility: Water: Insoluble  
Dissoluble: Hydrochloric acid, sulfuric acid, dilute nitric acid.

Flammable: Non-combustible substance

Oxidation: None

## Section 10. Stability and reactivity

Stability: Stable when stored in sealed container at room temperature.

Reactivity

Incompatibility: Acids, oxidizing agents, sulfur.

Condition to avoid: No data available

## Section 11. Toxicological information

Acute toxicity(Oral): GHS ; Not classified.; Falls below the lowest level.  
Ni oral rat LD<sub>50</sub> > 9000 mg/kg (ECETOC)

Skin corrosive / irritation: GHS ; No data available

Serious eyes damage / eye 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 allergic skin reaction

Germ cell mutagenicity: GHS ; No data available

Carcinogenicity:

GHS ; Category 2 ; Suspected of causing cancer

| Chemical Name |    | ACGIH<br>(2013)                                 | IARC<br>(2017) | NTP<br>(2016) |
|---------------|----|-------------------------------------------------|----------------|---------------|
| Nickel        |    | A5                                              | 2B             | R             |
| ACGIH         | A5 | Not suspected as a human carcinogen.            |                |               |
| IARC          | 2B | Possibly carcinogenic to humans.                |                |               |
| NTP           | B  | Reasonably anticipated to be human carcinogens. |                |               |

Reproductive toxicity:

GHS ; No data available

Specific target organ toxicity

—single exposure:

GHS ; Category 1 ;

Causes damage to organs. ( Respiratory organs, kidney )

Specific target organ toxicity

—repeated exposure:

GHS ; Category 1 ;

Causes damage to organ ( Respiratory organs ) through  
prolonged or repeated exposure.

Aspiration hazard:

GHS ; No data available

## Section 12. Ecological information

Ecotoxicity:

Hazards 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: Non-hazards

UN number: None

HS code: 7504.00

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

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.