



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Nickel ICP, 2.5 ppm in HNO<sub>3</sub>

**Product Number** RPNi02N0

**Other Identifying Product Numbers** RPNi02N0-1N

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company

**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

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### SECTION 2: Hazard(s) Identification

#### 2.1. Classification of the Substance or Mixture

| Hazard Class                        | Category   | Hazard Statements | Precautionary Statements                                                                                |
|-------------------------------------|------------|-------------------|---------------------------------------------------------------------------------------------------------|
| Skin Corrosion / Irritation         | Category 1 | H314              | P260,P264,P280,P301+P330+P331,<br>P303+P361+P353,P363,P304+P340,<br>P310,P321,P305+P351+P338,P405, P501 |
| Serious Eye Damage / Eye Irritation | Category 1 | H318              | P280,P305+P351+P338,P310                                                                                |
| Corrosive to Metals                 | Category 1 | H290              | P234,P390,P406                                                                                          |

#### 2.2. GHS Label Elements

##### Pictograms:



**Signal Word: Danger**

##### Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement                        |
|---------------|-----------------------------------------|
| H290          | May be corrosive to metals              |
| H314          | Causes severe skin burns and eye damage |

##### Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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## Prevention

| Precautionary Number | Precautionary Statement                               |
|----------------------|-------------------------------------------------------|
| P234                 | Keep only in original packaging.                      |
| P260                 | Do not breathe fumes or mist.                         |
| P264                 | Wash hands, arms, and face thoroughly after handling. |
| P280                 | Wear protective gloves and eye protection.            |

## Response

| Precautionary Number | Precautionary Statement                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301+P330+P331       | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P304+P340            | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310                 | Immediately call a poison center or doctor.                                                                                      |
| P363                 | Wash contaminated clothing before reuse.                                                                                         |
| P390                 | Absorb spillage to prevent material damage.                                                                                      |

## Storage

| Precautionary Number | Precautionary Statement |
|----------------------|-------------------------|
| P405                 | Store locked up.        |

## Disposal

| Precautionary Number | Precautionary Statement                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P501                 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

## 2.3. Hazards not Otherwise Classified

No other hazards identified.

## 2.4. Ingredients of Unknown Acute Toxicity

6.9 percent of this mixture consists of ingredient(s) of unknown acute oral and dermal toxicity.

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### SECTION 3: Composition / Information on Ingredients

#### 3.1. Components of Mixture

| Chemical Name (IUPAC) | Common Name and Synonyms | CAS Number | Weight% |
|-----------------------|--------------------------|------------|---------|
| water                 | Water                    | 7732-18-5  | 93.08   |
| nitric acid           | Nitric Acid              | 7697-37-2  | 6.92    |
| nickel                | Nickel                   | 7440-02-0  | < 0.1   |

### SECTION 4: First-Aid Measures

#### 4.1. Description of Necessary Measures

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.

**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage Caution! Mildly corrosive liquid. Contains low level of a known carcinogen. Avoid contact with skin, eyes, and clothing. If swallowed, dilute with water and call a physician. Wash areas of contact with plenty of water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

#### 4.3. Immediate Medical Attention or Special Treatment Needed

Immediately call a poison center or doctor. Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### SECTION 5: Fire-Fighting Measures

#### 5.1. Extinguishing Media

Use water or water spray.

#### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can react with metals to release flammable hydrogen gas. May react explosively with combustible organic or readily oxidizable materials such as: alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

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## 5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

| Chemical Name | CAS Number | Exposure Limit         |
|---------------|------------|------------------------|
| Nickel        | 7440-02-0  | 1 mg/m3 TWA            |
| Nitric Acid   | 7697-37-2  | 2 ppm TWA; 5 mg/m3 TWA |

### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

### U.S. OSHA - Specifically Regulated Chemicals

No limits found.

### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

| Chemical Name | CAS Number | Exposure Limit |
|---------------|------------|----------------|
| Nitric Acid   | 7697-37-2  | 4 ppm STEL     |

### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name | CAS Number | Exposure Limit                               |
|---------------|------------|----------------------------------------------|
| Nickel        | 7440-02-0  | 1.5 mg/m3 TWA (inhalable particulate matter) |
| Nitric Acid   | 7697-37-2  | 2 ppm TWA                                    |

## 8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| <b>Physical State:</b>                            | Liquid                   |
| <b>Color:</b>                                     | colorless to light green |
| <b>Odor:</b>                                      | Data not available.      |
| <b>Odor Threshold:</b>                            | Data not available.      |
| <b>Melting/Freezing Point:</b>                    | Approximately 0°C        |
| <b>Boiling Point/Range:</b>                       | Approximately 100°C      |
| <b>Flammability:</b>                              | Data not available.      |
| <b>Flammability/Explosive Limits:</b>             | Data not available.      |
| <b>Flash Point:</b>                               | Not flammable            |
| <b>Auto-Ignition Temperature:</b>                 | Data not available.      |
| <b>Decomposition Temperature:</b>                 | Data not available.      |
| <b>pH:</b>                                        | acidic                   |
| <b>Kinematic Viscosity:</b>                       | Data not available.      |
| <b>Solubility:</b>                                | miscible                 |
| <b>Vapor Pressure:</b>                            | Data not available.      |
| <b>Evaporation Rate:</b>                          | Data not available.      |
| <b>Relative Density:</b>                          | 1.00                     |
| <b>Relative Vapor Density:</b>                    | Data not available.      |
| <b>Particle Characteristics:</b>                  | Data not available.      |
| <b>Partition Coefficient n-octanol/water, log</b> | Data not available.      |

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep only in original packaging. Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

### 10.4. Hazardous Decomposition Products

Will not occur.

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### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity - Oral Exposure:

No information found.

| Chemical Name | CAS Number | Toxicity                                                                    |
|---------------|------------|-----------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | Oral LD50 Rat >9000 mg/kg (powder suspended in mineral oil, Source: EU_RAR) |

##### Acute Toxicity - Dermal Exposure:

No information found.

##### Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 46.5318 mg/L, 4 h(calculated)

| Chemical Name | CAS Number | Toxicity                                                                      |
|---------------|------------|-------------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | Inhalation LC50 Rat >10.2 mg/L 1 h (no deaths occurred, dust, Source: EU_RAR) |
| Nitric Acid   | 7697-37-2  | Inhalation LC50 Rat 3.22 mg/L 4 h (Source: WHMIS)                             |

#### 11.2 Carcinogenicity:

##### International Agency for Research on Cancer (IARC)

| Chemical Name | CAS Number | Classification                                                                                                |
|---------------|------------|---------------------------------------------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | Group 2B (Possibly Carcinogenic to Humans) - Monograph 49 [1990]; Supplement 7 [1987]                         |
| Nitric Acid   | 7697-37-2  | Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic |

##### National Toxicology Program (NTP)

| Chemical Name | CAS Number | Classification                                                                                      |
|---------------|------------|-----------------------------------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | Reasonably Anticipated To Be A Human Carcinogen (listed under Nickel compounds and metallic nickel) |

##### U.S. OSHA specifically regulated carcinogens

| Chemical Name | CAS Number     | Classification |
|---------------|----------------|----------------|
|               | No data found. |                |

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### 11.3 Additional Toxicology Information:

Causes severe skin burns and eye damage.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name | CAS Number | Species          | Exposure | Toxicity                                                                                                                                                   |
|---------------|------------|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | Freshwater Algae | Acute    | EC50 72 h Pseudokirchneriella subcapitata 0.18 mg/L (IUCLID); EC50 96 h Pseudokirchneriella subcapitata 0.174 - 0.311 mg/L [static] (EPA)                  |
| Nickel        | 7440-02-0  | Freshwater Fish  | Acute    | LC50 96 h Brachydanio rerio >100 mg/L (IUCLID); LC50 96 h Cyprinus carpio 1.3 mg/L [semi-static] (EPA); LC50 96 h Cyprinus carpio 10.4 mg/L [static] (EPA) |
| Nickel        | 7440-02-0  | Water Flea       | Acute    | EC50 48 h Daphnia magna >100 mg/L (IUCLID); EC50 48 h Daphnia magna 1 mg/L [Static] (EPA)                                                                  |

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.



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### SECTION 14: Transportation Information

#### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

**Sizes:** 1 L

**UN Number:** UN3264

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



#### 14.2 Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 1 L

**UN Number:** UN3264

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



#### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 1 L

**UN Number:** UN3264

**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



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### SECTION 15: Regulatory Information

#### 15.01. Occupational Safety and Health Administration (OSHA) Hazards

| Chemical Name | CAS Number | Regulatory Information |
|---------------|------------|------------------------|
|               |            | No data found.         |

#### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name | CAS Number | RQ          | TPQ              |
|---------------|------------|-------------|------------------|
| Nitric Acid   | 7697-37-2  | 1000 lb TPQ | 1000 lb EPCRA RQ |

#### 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

| Chemical Name | CAS Number | Regulatory Information                                                                                                                                                                                                                                                                                            |
|---------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nickel        | 7440-02-0  | 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) |
| Nitric Acid   | 7697-37-2  | 1000 lb final RQ; 454 kg final RQ                                                                                                                                                                                                                                                                                 |

#### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name | CAS Number | List               | Regulatory Information         |
|---------------|------------|--------------------|--------------------------------|
| Nickel        | 7440-02-0  | Emission Reporting | 0.1 % de minimis concentration |
| Nitric Acid   | 7697-37-2  | Emission Reporting | 1.0 % de minimis concentration |

#### 15.05. Massachusetts Right-to-Know Substance List

| Chemical Name | CAS Number | Regulatory Information                |
|---------------|------------|---------------------------------------|
| Nickel        | 7440-02-0  | Carcinogen; Extraordinarily hazardous |
| Nitric Acid   | 7697-37-2  | Extraordinarily hazardous             |

#### 15.06. Pennsylvania Right-to-Know Hazardous Substances

| Chemical Name | CAS Number | Regulatory Information                            |
|---------------|------------|---------------------------------------------------|
| Nickel        | 7440-02-0  | Environmental hazard; Special hazardous substance |
| Nitric Acid   | 7697-37-2  | Environmental hazard                              |

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## 15.07. New Jersey Worker and Community Right-to-Know Components

| Chemical Name | CAS Number | Regulatory Information |
|---------------|------------|------------------------|
| Nickel        | 7440-02-0  | sn 1341                |
| Nitric Acid   | 7697-37-2  | sn 1356                |

## 15.08. California Proposition 65

| Chemical Name | CAS Number | Regulatory Information           |
|---------------|------------|----------------------------------|
| Nickel        | 7440-02-0  | carcinogen, 10/1/1989 (metallic) |

## 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

| Chemical Name | CAS Number | List | Status  |
|---------------|------------|------|---------|
| Nickel        | 7440-02-0  | DSL  | Present |
| Nitric Acid   | 7697-37-2  | DSL  | Present |
| Water         | 7732-18-5  | DSL  | Present |

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

| Chemical Name | CAS Number | Status                |
|---------------|------------|-----------------------|
| Nickel        | 7440-02-0  | Present (ACTIVE)      |
| Nitric Acid   | 7697-37-2  | Present (ACTIVE)      |
| Water         | 7732-18-5  | Present [XU] (ACTIVE) |

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

| Chemical Name | CAS Number | List   | Number    |
|---------------|------------|--------|-----------|
| Nickel        | 7440-02-0  | EINECS | 231-111-4 |
| Nitric Acid   | 7697-37-2  | EINECS | 231-714-2 |
| Water         | 7732-18-5  | EINECS | 231-791-2 |

## 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name | CAS Number | Status          |
|---------------|------------|-----------------|
| Nickel        | 7440-02-0  | Present [25343] |
| Nitric Acid   | 7697-37-2  | Present [35578] |
| Water         | 7732-18-5  | Present [32224] |

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### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name | CAS Number | List    | Status             |
|---------------|------------|---------|--------------------|
| Nickel        | 7440-02-0  | Annex 1 | Present [KE-25818] |
| Nitric Acid   | 7697-37-2  | Annex 1 | Present [KE-25911] |
| Water         | 7732-18-5  | Annex 1 | Present [KE-35400] |

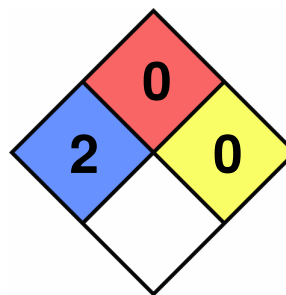
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name | CAS Number | MITI No.                                         |
|---------------|------------|--------------------------------------------------|
| Nickel        | 7440-02-0  | - (exempt)                                       |
| Nitric Acid   | 7697-37-2  | (1)-394                                          |
| Water         | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 2  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**  
 2026-05-06

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.