

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-06-12

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Nickel(II) chloride  
Product Number : N774039  
Brand : aladdin  
CAS-No. : 7718-54-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Skin corrosion/irritation (Category 2), H315

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1A), H350

Reproductive toxicity (Category 1B), H360

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Specific target organ toxicity - repeated exposure (Category 1), H372

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Danger

Signal word

Hazard statement(s)

H315	Causes skin irritation
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 organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H301+H331	Toxic if swallowed or if inhaled

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] Wear respiratory protection.
P311	Call a POISON CENTER or doctor/...
P330	Rinse mouth.
P391	Collect spillage.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	: Nickel dichloride, Nickelous chloride, Nickel(2+) chloride
Formula	: NiCl <sub>2</sub>
Molecular weight	: 129.60
CAS No.	: 7718-54-9
EC-NO.	: 231-743-0

Component	Classification	Concentration
<b>Nickel(II) chloride</b>	no data available	Ni≥42%

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General advice

Immediate medical attention is required. If symptoms persist, call a physician.

##### If inhaled

Move to fresh air. If breathing is irregular or stops, see a doctor. Perform artificial respiration. Avoid direct contact with skin.

##### In case of skin contact

Wash immediately with plenty of water. If skin irritation persists, call your doctor.

##### In case of eye contact

Wash immediately with plenty of water. After the initial rinse, remove the contact lenses and continue rinsing for at least 15 minutes. Keep your eyes open while flushing. If symptoms persist, call your doctor.

##### If swallowed

Do not induce vomiting. Clean your mouth with water, then drink plenty of water. Never feed anything to an unconscious person. Call the doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

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Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

no data available

**5.2 Special hazards arising from the substance or mixture**

Hydrogen chloride gas Nickel/nickel oxides Not combustible. Ambient fire may liberate hazardous vapours

**5.3 Advice for firefighters**

Wear self-contained breathing and full protective equipment

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information. Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up**

If safety requires, prevent further leakage or spillage. Cover the powder spillage with plastic cloth or waterproof cloth to minimize diffusion. Embankment shall be built before liquid leakage for later treatment. Cover spilled liquid with sand, soil or other non combustible absorbent material. Cover the powder spillage with plastic cloth or waterproof cloth to minimize diffusion. Pick up and transfer to a properly labeled container. Absorb with inert absorbent material.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. May cause damage to organs through prolonged or repeated exposure. Noxious vapor/odor. Ensure adequate ventilation, especially in confined areas.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Moisture sensitive. Room temperature, argon filled storage.

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### 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

##### Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	form: Powder color: Yellow to Pale To Dark Orange
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available

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h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	3.55g/mL at 25°C (lit.)
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Violent reactions possible with: Alkali metals

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - female - 175 mg/kg (OECD Test Guideline 401)

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LC50 Inhalation - Rat - male - 4 h - 0.593 mg/l - dust/mist (OECD Test Guideline 403)

LC50 Inhalation - 4 h - 0.51 mg/l - dust/mist Dermal: No data available

**Skin corrosion/irritation**

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Serious eye damage/eye irritation**

Eyes - Rabbit Result: No eye irritation - 168 h (OECD Test Guideline 405)

**Respiratory or skin sensitisation**

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Germ cell mutagenicity**

Suspected of causing genetic defects. Test Type: gene mutation test Test system: mammalian cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive Remarks: Test Type: Chromosome aberration test Species: Mouse Application Route: Intraperitoneal Result: positive

**Carcinogenicity**

no data available

**Reproductive toxicity**

May damage the unborn child.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

Inhalation - Causes damage to organs through prolonged or repeated exposure. - Lungs Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Aspiration hazard**

no data available

**Additional Information**

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish semi-static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 15.3 mg/l - 96 h Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - *Ceriodaphnia dubia* (water flea) - 0.013 mg/l - 48 h Remarks: (ECHA)

Toxicity to algae static test ErC50 - green algae - 0.243 mg/l - 72 h (OECD Test Guideline 201)

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

Bioaccumulation *Oncorhynchus mykiss* (rainbow trout) - 180 d - 1000 µg/l(nickel(II) chloride) Bioconcentration factor (BCF): 4

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## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects. Discharge into the environment must be avoided.

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## SECTION 13:

### 13.1 Disposal considerations

#### Product

Should not be released into the environment. Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated packaging

Dispose of as unused product.

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## SECTION 14: Transport information

### DOT (US)

UN number: UN3288

Packing group: III

Class: 6.1

Proper shipping name: Toxic solid,  
inorganic, n.o.s. (nickel(II) chloride)

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

Environmental Hazards: yes

### IMDG

UN number: UN3288

Packing group: III

EMS-No: no data available

Proper shipping name: Toxic solid, inorganic, n.o.s. (nickel(II) chloride)

### IATA

UN number: UN3288

Packing group: III

Class: 6.1

Proper shipping name: Toxic solid, inorganic, n.o.s. (nickel(II) chloride)

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## SECTION 15: Regulatory information

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

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## SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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