

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Nickel(II) chloride hexahydrate, 50 g

Print date: 15.04.2015

Product code: 9992046

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Nickel(II) chloride hexahydrate, 50 g

CAS No: 7791-20-0

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet**Seller**

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1

Place: D-66459 Kirkel

Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH

Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone number: +49 (0)681 302-71232**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: C1 - Carc. Cat. 1, M3 - Muta. Cat. 3, R2 - Repr. Cat. 2, T - Toxic, Xi - Irritant, N -

Dangerous for the environment

R phrases:

May cause cancer by inhalation.

May cause harm to the unborn child.

Toxic by inhalation and if swallowed.

Irritating to skin.

May cause sensitisation by inhalation and skin contact.

Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Possible risks of irreversible effects.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Carcinogenicity: Carc. 1A

Germ cell mutagenicity: Muta. 2

Reproductive toxicity: Repr. 1B

Acute toxicity: Acute Tox. 3

Acute toxicity: Acute Tox. 3

Skin corrosion/irritation: Skin Irrit. 2

Respiratory/skin sensitization: Resp. Sens. 1

Respiratory/skin sensitization: Skin Sens. 1

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Specific target organ toxicity - repeated exposure: STOT RE 1
 Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor (self-classification) = 1)
 Hazardous to the aquatic environment: Aquatic Chronic 1 (M-Factor (self-classification) = 1)
 Hazard Statements:
 Toxic if inhaled.
 Toxic if swallowed.
 Causes skin irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 Causes damage to organs through prolonged or repeated exposure.
 May cause cancer by inhalation.
 May damage the unborn child.
 Suspected of causing genetic defects.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

Nickel(II) chloride hexahydrate

Signal word:

Danger

Pictograms:

GHS06-GHS08-GHS09



Hazard statements

H301+H331	Toxic if swallowed or if inhaled.
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.
H350i	May cause cancer by inhalation.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501	Dispose of contents/container to Waste management.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	237,69
Molecular weight:	Cl ₂ Ni · 6H ₂ O

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
	Nickel(II) chloride hexahydrate	100 %
7791-20-0	Carc. Cat. 1, Muta. Cat. 3, Repr. Cat. 2, T - Toxic, Xi - Irritant, N - Dangerous for the environment R49-61-23/25-38-42/43-48/23-50-53-68	
	Carc. 1A, Muta. 2, Repr. 1B, Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H350i H341 H360D H301 H331 H315 H334 H317 H372 H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move victim out of danger zone.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

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

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	green
Odour:	No data available

Test method

pH-Value:	No data available
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Changes in the physical state

Initial boiling point and boiling range:	No data available
Sublimation point:	No data available

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Softening point: No data available

Flash point: No data available

Flammability

Solid: No data available

Gas: No data available

Lower explosion limits: No data available

Upper explosion limits: No data available

Ignition temperature: No data available

Auto-ignition temperature

Solid: No data available

Gas: No data available

Vapour pressure: No data available

Vapour pressure: No data available

Density: No data available

Water solubility: No data available

Partition coefficient: No data available

Viscosity / dynamic: No data available

Viscosity / kinematic: No data available

Flow time: No data available

Vapour density: No data available

Evaporation rate: No data available

Solvent separation test: No data available

Solvent content: No data available

9.2. Other information

Solid content: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute toxicity, inhalant. Acute toxicity, dermal.

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7791-20-0	Nickel(II) chloride hexahydrate				
	oral	ATE	100 mg/kg		
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		

Irritation and corrosivity

After skin contact: Irritant.

Sensitising effects

May cause sensitization by inhalation and skin contact.

Severe effects after repeated or prolonged exposure

Danger of serious damage to health by prolonged exposure.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. May cause heritable genetic damage.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

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160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN3288
14.2. UN proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
 Hazard label: 6.1
 Classification code: T5
 Special Provisions: 274
 Limited quantity: 5 kg
 Transport category: 2
 Hazard No: 60
 Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number: UN3288
14.2. UN proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
 Hazard label: 6.1
 Classification code: T5
 Special Provisions: 274 802
 Limited quantity: 5 kg

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN3288
14.2. UN proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 6.1

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14.4. Packing group: III
 Hazard label: 6.1
 Special Provisions: 223, 274
 Limited quantity: 5 kg
 EmS: F-A, S-A

Other applicable information (marine transport)
 E1

Air transport (ICAO)

14.1. UN number: UN3288
14.2. UN proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
 Hazard label: 6.1
 Special Provisions: A3 A5
 Limited quantity Passenger: 10 kg
 IATA-packing instructions - Passenger: 670
 IATA-max. quantity - Passenger: 100 kg
 IATA-packing instructions - Cargo: 677
 IATA-max. quantity - Cargo: 200 kg

Other applicable information (air transport)
 E1
 : Y645

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

23/25	Toxic by inhalation and if swallowed.
38	Irritating to skin.
42/43	May cause sensitisation by inhalation and skin contact.
48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
49	May cause cancer by inhalation.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
61	May cause harm to the unborn child.
68	Possible risks of irreversible effects.

Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H301+H331	Toxic if swallowed or if inhaled.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled .
H341	Suspected of causing genetic defects.
H350i	May cause cancer by inhalation.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.