



## 1443 Nickel(II) Chloride 6-hydrate

### 1. Identification of the substance/preparation and of the company or firm

#### 1.1 Identification of the substance or preparation

Name:

Nickel(II) Chloride 6-hydrate

**Synonym:**

**REACH Registration Number:** 01-2119486973-20-XXXX

#### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## 2. Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) nº 1272/2008.**

Carc. 1A

Repr. 1B

Acute Tox. 3

Acute Tox. 3

Skin Irrit. 2

Resp. Sens 1

Skin Sens. 1

STOT RE 1

Muta. 2

Aquatic Acute 1

Aquatic Chronic 1

## Hazard Pictograms



### Signal word

Danger

### Hazard statements

H350i May cause cancer by inhalation.  
H360D May damage the unborn child.  
H331 Toxic if inhaled.  
H301 Toxic if swallowed.  
H315 Causes skin irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H372 Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

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/vapours/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### Classification (67/548/CEE or 1999/45/CE).

<b>N</b> Dangerous for the environment	R38
<b>T</b> Toxic	R23/25
	R61
	R49
	R42/43
	R48/23
	R68
	R50/53

For the full text of the R-phrases mentioned in this section, see section 16.

## 3. Component Composition/Information

Name: Nickel(II) Chloride 6-hydrate

Formula:  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$  M.= 237,71 CAS [7791-20-0]

EC number (EINECS): 231-743-0

REACH Registration Number: 01-2119486973-20-XXXX

## **4. First aid**

### **4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

### **4.2 Inhaling:**

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration. In the event sickness persists, seek medical assistance.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

### **4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open.

### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance. Drink milk neat or mixed with raw eggs.

## **5. Fire-fighting means**

### **5.1 Suitable fire-extinguishing means:**

As appropriate to the environment.

### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

### **5.3 Special risks:**

Incombustible.

### **5.4 Protective equipment:**

Suitable clothing and footwear.

## **6. Measures to be taken in the event of accidental spillage**

### **6.1 Individual precautions:**

Do not inhale the dust.

### **6.2 Precautions for care of the environment:**

Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods for collection/cleaning:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

## **7. Handling and storage**

### **7.1 Handling:**

No special indications.

### **7.2 Storage:**

Well sealed containers. Dry atmosphere. In well ventilated premises. Restricted access, only authorized to technicians.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

No special indications.

### **8.2 Exposure limit control:**

TLV-TWA(Ni): 0,1 mg/m<sup>3</sup>

VLA-ED(Ni): 0,1 mg/m<sup>3</sup>

### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: solid

Colour: Green

Granulometry: N/A

Odour: Odourless.

pH: 4,9 ((10% sol.))

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: 2.540 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 140 °C

Viscosity: N/A

## **10. Stability and reactivity**

**10.1 Conditions which should be avoided:**

The product is chemically stable under standar ambient conditions (room temperature).

**10.2 Matter which should be avoided:**

Strong acids.

**10.3 Hazardous decomposition products:**

No specific data.

**10.4 Complementary information:**

No specific data.

**11. Toxicological information****11.1 Acute toxicity:**

LD L0 oral rat : 175 mg/kg

LD50 oral rat : 175 mg/kg

LD50 ipr mus : 48 mg/kg

**11.2 Dangerous effects for health:**

For nickel compounds generally: Inorganic nickel compounds can have an astringent action on the mucosae. Can cause sensitization allergic reaction Can cause dermatitis Contrasted experiments lead to assume an inverse relation between the hydrosolubility of the nickel compound and its carcinogenic effect:increased hydrosolubility represents a decreased carcinogenic effect. Carcinogenic in animal testing. There are no definite conclusions regarding the carcinogenic effect of this substance on humans. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

**12. Environmental information**

## **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (*Ps. putida*) 0,0025 mg/l

Classification:

Extr. toxic

Algae (*Sc. quadricauda*) 1,3 mg/l

Classification:

Extr. toxic

Algae (*M. aeruginosa*) 0,005 mg/l

Classification:

Extr. toxic

Protozoa (*E. sulcatum*)

Classification: Extr. toxic

Protozoa (*U. parduczi*). 0,042 mg/l

Classification:

Extr. toxic

Crustaceans (*Daphnia magna*)

Classification: Extr. toxic

Fish (*Leuciscus Idus*) 570 mg/l

Classification:

Highly toxic

Fish (*P. promelas*)

Classification: Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment High

12.1.3. - Observations:

The ecotoxicity is due to the ion Ni.

## **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

## **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

## **12.4 Mobility in soil :**

Data not available.

## **12.5 Assessment PBT and MPMB :**

Data not available.

## **12.6 Other possible effects on the environment:**

Water-pollutant product.

Do not allow it to enter soils or water channels.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Information concerning transport**

Overland (ADR):

Technical name: TOXIC SOLID, INORGANIC, N.O.S.

UN 3288 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: TOXIC SOLID, INORGANIC, N.O.S.

UN 3288 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Toxic solid, inorganic, n.o.s.

UN 3288 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 677 PAX 670

## **15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. Other information**

### Other precautionary statements

- 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.  
P281 Use personal protective equipment as required.  
P285 In case of inadequate ventilation wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P311 Call a POISON CENTER or doctor/physician.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see on this label).  
P330 Rinse mouth.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Labelling (65/548/CEE or 1999/45/CE)

- R-phrase(s):     **R38** Irritating to skin.  
                      **R23/25** Toxic by inhalation and if swallowed.  
                      **R61** May cause harm to the unborn child.  
                      **R49** May cause cancer by inhalation.  
                      **R42/43** May cause sensitisation by inhalation and skin contact.  
                      **R48/23** Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
                      **R68** Possible risk of irreversible effects.  
                      **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrase(s):     **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
                      **S60** This material and its container must be disposed of as hazardous waste.  
                      **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
                      **S53** Avoid exposure - obtain special instructions before use.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.