

according to Regulation (EC) No 1907/2006

# Nickel(II) chloride hexahydrate for analysis

Revision date: 21.09.2023

Product code: 22717

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

# 1.1. Product identifier

Nickel(II) chloride hexahydrate for analysis

CAS No:	7791-20-0
Index No:	028-011-00-6
EC No:	231-743-0

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

#### Use of the substance/mixture

#### Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	1-800-424-9300 Outside USA and C	REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls
	accepted)	

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Carc. 1A; H350i Muta. 2; H341 Repr. 1B; H360D Acute Tox. 3; H331 Acute Tox. 3; H301 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 1; H372 Aquatic Acute 1; H400 (M-Factor = 1) Aquatic Chronic 1; H410 (M-Factor = 1)

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

#### Regulation (EC) No 1272/2008



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Signal word:	Danger	
Pictograms:		
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 statemer	nts	
P201	Obtain special instructions before use.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P308	IF exposed or concerned:	
P310	Immediately call a POISON CENTER/doctor.	
Special labelling of cert	tain mixtures	
	Restricted to professional users.	
Other hazards		

#### 2.3. Other hazards

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Sum formula:	NiCl2 * 6 H2O
Molecular weight:	237,66 g/mol

# Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
7791-20-0	nickel chloride hexahydrate				
	231-743-0	028-011-00-6			
	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 H331 H301 H315 H334 H317 H372 H400 H410				

Full text of H and EUH statements: see section 16.



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## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7791-20-0	231-743-0	nickel chloride hexahydrate	100 %
	mg/kg Skin >= 1 - 100 Aquatic Acut	TE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: LD50 = 500 Irrit. 2; H315: >= 20 - 100 Skin Sens. 1; H317: >= 0,01 - 100 STOT RE 1; H372: STOT RE 2; H373: >= 0,1 - < 1 e 1; H400: M=1 nic 1; H410: M=1	

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### **General information**

Self-protection of the first aider

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. (Water, to which activated charcoal may be added) Call a physician immediately.

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

Irritant Allergic reactions Gastrointestinal complaints

# 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.

#### Unsuitable extinguishing media

no restriction

## 5.2. Special hazards arising from the substance or mixture

## Non-combustible solids

Hazardous combustion products

In case of fire may be liberated: Metal oxide smoke, toxic, Hydrogen chloride (HCl)



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# 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For containment

#### Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

# For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

## Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid exposure - obtain special instructions before use. Read label before use. Handle and open container with care. Avoid dust formation. Do not breathe dust. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.



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# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only.

# Further information on storage conditions

Store in a dry place. storage temperature < +30°C

# 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

# **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
-	Nickel, inorganic compounds (as Ni), soluble compounds	-	0.1		TWA (8 h)	

# **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
-	Nickel compounds	Ni	3 μg/L		After several consecutive working shifts

#### **DNEL/DMEL** values

CAS No	Substance						
DNEL type	DNEL type Exposure route Effect Value						
7791-20-0	nickel chloride hexahydrate						
Worker DNEL, acute     inhalation     systemic     104 mg/m³							
Worker DNEL, acute inhalation local 1,6 mg/m³							
Consumer DNEL, acute inhalation systemic 8,8 mg/m³				8,8 mg/m³			
Consumer DN	NEL, acute	inhalation	local	0,1 mg/m³			
Consumer DNEL, long-term		oral	systemic	0,02 mg/kg bw/day			
Consumer DN	Consumer DNEL, acute		systemic	0,012 mg/kg bw/day			



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#### **PNEC** values

CAS No	Substance				
Environmental compartment Value					
7791-20-0	nickel chloride hexahydrate				
Freshwater		0,0071 mg/l			
Freshwater (intermittent releases) 0 mg/l					
Marine water 0,0086 m					
Freshwater sediment 109 mg/kg					
Marine sediment 109 mg/kg					
Secondary poisoning 0,12 mg/k					
Micro-organ	isms in sewage treatment plants (STP)	0,33 mg/l			
Soil		29,9 mg/kg			

# 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Avoid dust formation. Do not breathe dust.

## Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles Wear eye/face protection.

# Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

## Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

# **Respiratory protection**

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P3

## Environmental exposure controls

Do not allow to enter into surface water or drains.



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# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and ch	emical properties	
Physical state:	solid	
Colour:	green	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		140/1001 °C
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value (at 20 °C):		~4,9 (100 g/l)
Viscosity / kinematic:		No data available
Water solubility:		2540 g/L
(at 20 °C)		2040 g/L
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		1,92 g/cm <sup>3</sup>
Relative density:		No data available
Bulk density:		640 kg/m³
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		No data available
Gas:		No data available
Oxidizing properties		
Oxidising agent, strong		
Other safety characteristics		
Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		No data available
Solid content:		100%
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Viscosity / dynamic:		No data available



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# Nickel(II) chloride hexahydrate for analysis Product code: 22717 Revision date: 21.09.2023 Page 8 of 12 Flow time: No data available **Further Information** No data available **SECTION 10: Stability and reactivity** 10.1. Reactivity No data available 10.2. Chemical stability The product is stable under storage at normal ambient temperatures. 10.3. Possibility of hazardous reactions Alkali metals 10.4. Conditions to avoid Heat 10.5. Incompatible materials No data available 10.6. Hazardous decomposition products In case of fire may be liberated: Metal oxide smoke, toxic, Hydrogen chloride (HCI) Further information No data available **SECTION 11: Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicocinetics, metabolism and distribution No data available Acute toxicity Toxic if swallowed.

Toxic if inhaled.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7791-20-0	nickel chloride hexahyd	nickel chloride hexahydrate					
	oral	LD50 mg/kg	500	Rat	Regul Toxicol and Pharmacol (doi.org/10.	OECD Guideline 425	
	inhalation vapour	ATE	3 mg/l				
	inhalation dust/mist	ATE	0,5 mg/l				

# Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (nickel chloride hexahydrate) May cause an allergic skin reaction. (nickel chloride hexahydrate)

# Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (nickel chloride hexahydrate) May cause cancer by inhalation. (nickel chloride hexahydrate) May damage the unborn child. (nickel chloride hexahydrate)

## STOT-single exposure

Based on available data, the classification criteria are not met.





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## STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (nickel chloride hexahydrate)

# Aspiration hazard

Based on available data, the classification criteria are not met.

# Information on likely routes of exposure

No data available

# Specific effects in experiment on an animal No data available

#### Additional information on tests No data available

Practical experience No data available

# 11.2. Information on other hazards

# Endocrine disrupting properties No data available

Other information

No data available

# **Further information**

Irritant Allergic reactions Gastrointestinal complaints

# **SECTION 12: Ecological information**

# 12.1. Toxicity

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
7791-20-0	nickel chloride hexahydrate							
	Acute fish toxicity	LC50 mg/l	15,3	96 h	Oncorhynchus mykiss	Aquatic Toxicology 63 (2003) 65-82 (2003	other: not reported	
	Acute algae toxicity	ErC50 mg/l	0,263	72 h	Spermatozopsis exsultans	Publication (2009)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 0,2	48 h	Ceriodaphnia dubia	Environmental Toxicology and Chemistry.	other: comparable to USEPA, Methods for	
	Fish toxicity	NOEC mg/l	0,04	8 d	Danio rerio	Arch. Environ. Contam. Toxicol. 21:126-1	other: Swedish Standard SS 02 81 93	
	Algae toxicity	NOEC	0,6 mg/l	14 d	Anabaena cylindrica	Environ. Pollut. (Series A). 25(4):241-2	other: not reported	
	Crustacea toxicity	NOEC mg/l	0,09	21 d	Daphnia magna	Water Res. 23(4):501-510 (1989)	other: DIN 38412, Part II	
	Acute bacteria toxicity	(EC50	33 mg/l)	0,5 h	Activated sludge	Journal of Hazardous Materials. B139:332	ISO 8192	

# 12.2. Persistence and degradability

No data available



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# 12.3. Bioaccumulative potential

#### BCF

CAS No	Chemical name	BCF	Species	Source
7791-20-0	nickel chloride hexahydrate	39	Chlorella salina	J. Mar. Biol. Ass. U

# 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# No data available

# 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not allow to enter into surface water or drains.

#### **Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number:	UN 3288
14.2. UN proper shipping name:	TOXIC SOLID, INORGANIC, N.O.S. (nickel chloride hexahydrate)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	11
Hazard label:	6.1
Classification code:	Т5
Special Provisions:	274
Limited quantity:	5 kg
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3288
14.2. UN proper shipping name:	TOXIC SOLID, INORGANIC, N.O.S. (nickel chloride hexahydrate)
14.3. Transport hazard class(es):	6.1
<u>14.4. Packing group:</u>	III
Hazard label:	6.1



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Classification code:	Т5	
Special Provisions:	274 802	
Limited quantity:	5 kg	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3288	
14.2. UN proper shipping name:	TOXIC SOLID, INORGANIC, N.O.S. (nickel chloride hexahydrate)	
14.3. Transport hazard class(es):	6.1	
14.4. Packing group:	III	
Hazard label:	6.1	
Special Provisions:	223, 274	
Limited quantity:	5 kg	
Excepted quantity:	E1	
EmS:	F-A, S-A	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 3288	
14.2. UN proper shipping name:	TOXIC SOLID, INORGANIC, N.O.S. (nickel chloride hexahydrate)	
14.3. Transport hazard class(es):	6.1	
14.4. Packing group:		
Hazard label:	6.1	
Special Provisions:	A3 A5	
Limited quantity Passenger:	10 kg	
Passenger LQ: Excepted quantity:	Y645 E1	
IATA-packing instructions - Passenger:	670	
IATA-max. quantity - Passenger:	100 kg	
IATA-packing instructions - Cargo:	677	
IATA-max. quantity - Cargo:	200 kg	
14.5. Environmental hazards	J.	
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	nickel chloride hexahydrate	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 27, Entry 75		
Information according to 2012/18/EU	H2 ACUTE TOXIC	
(SEVESO III):		
Additional information:	E1	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve	nile
	work protection guideline' (94/33/EC). Observe employment restriction	
	under the Maternity Protection Directive (92/85/EEC) for expectant or	
	nursing mothers. Observe employment restrictions for women of	
	child-bearing age.	
Water hazard class (D):	3 - highly hazardous to water	
SECTION 16: Other information		



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# Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Irrit: Skin irritation Resp. Sens: Respiratory sensitisation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

## Relevant H and EUH statements (number and full text)

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

## **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.