

according to Regulation (EC) No. 1907/2006

Creation Date 04-Apr-2014 Revision Date 10-Feb-2024 Revision Number 4

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Nickel(II) chloride hexahydrate

Cat No.: 53131

Synonyms Nickel dichloride.; Nickelous chloride

CAS No 7791-20-0 Molecular Formula Cl2 Ni . 6 H2 O

REACH registration number -

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

Swiss distributor - Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Nickel(II) chloride hexahydrate

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Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute oral toxicity Category 3 (H301) Acute Inhalation Toxicity - Dusts and Mists 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 (H350i) Reproductive Toxicity Category 1B (H360D) Specific target organ toxicity - (repeated exposure) Category 1 (H372)

Environmental hazards

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1 (H400)
Category 1 (H410)

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

- 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
- H301 + H331 Toxic if swallowed or if inhaled

Precautionary Statements

- P280 Wear protective gloves and eye/face protection
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P304 + P340 IF INHALED: 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
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment

Additional EU labelling

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Restricted to professional users

2.3. Other hazards

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Nickel(II) chloride hexahydrate	7791-20-0		>95	Acute Tox. 3 (H301)
				Acute Tox. 3 (H331)
				Skin Irrit. 2 (H315)
				Resp. Sens. 1 (H334)
				Skin Sens. 1 (H317)
				Muta. 2 (H341)
				Carc. 1A (H350i)
				Repr. 1B (H360D)
				STOT RE 1 (H372)
				Aquatic Acute 1 (H400)
				Aquatic Chronic 1 (H410)
Nickel(II) chloride	7718-54-9	EEC No. 231-743-0	-	Acute Tox. 3 (H301)
				Acute Tox. 3 (H331)
				Skin Irrit. 2 (H315)
				Resp. Sens. 1 (H334)
				Skin Sens. 1 (H317)
				Muta. 2 (H341)
				Carc. 1A (H350i)
				Repr. 1B (H360D) STOT RE 1 (H372)
				Aquatic Acute 1 (H400)
				Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
				Aqualic Chilofile 1 (F1410)

Component	Specific concentration limits	M-Factor	Component notes
	(SCL's)		
Nickel(II) chloride hexahydrate	-	1	-
Nickel(II) chloride	Skin Irrit. 2 (H315) :: C>=20% Skin Sens. 1 (H317) :: C>=0.01% STOT RE 1 (H372) :: C>=1% STOT RE 2 (H373) :: 0.1% <c<1%< td=""><td>1</td><td>-</td></c<1%<>	1	-

REACH registration number	-
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Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention.

Nickel(II) chloride hexahydrateRevision Date10-Feb-2024IngestionDo NOT induce vomiting. Call a physician or poison control center immediately.InhalationRemove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. . Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Chlorine, Burning produces obnoxious and toxic fumes, Hydrogen chloride gas.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

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Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510

Storage Class (LGK) (Germany)

Storage Class/LGK 6.1D

Switzerland - Storage of hazardous substances

Storage class - SC 6.1 https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): UK - EH40/2005 Work Exposure Limits, Forth edition. Published 2020.

Component	European Union	The United Kingdom	France	Belgium	Spain
Nickel(II) chloride hexahydrate		STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr			TWA / VLA-ED: 0.1 mg/m³ (8 horas)
		Skin			
Nickel(II) chloride	STEL: 0.3 mg/m³ 15 min TWA: 0.1 mg/m³ 8 hr Skin				TWA / VLA-ED: 0.1 mg/m³ (8 horas)

Component	Italy	Germany	Portugal	The Netherlands	Finland
Nickel(II) chloride hexahydrate		Stunden). AGW -	TWA: 0.1 mg/m ³ 8 horas		
		exposure factor 8			
Nickel(II) chloride		TWA: 0.03 mg/m³ (8 Stunden). AGW - exposure factor 8	TWA: 0.1 mg/m ³ 8 horas		TWA: 0.01 mg/m³ 8 tunteina

С	Component	Austria	Denmark	Switzerland	Poland	Norway
Nick	kel(II) chloride					TWA: 0.05 mg/m ³ 8
h	exahydrate					timer

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Nickel(II) chloride	TRK-KZGW: 2 mg/m ³		TWA: 0.05 mg/m ³ 8
	15 Minuten		timer
	TRK-TMW: 0.5 mg/m ³		

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Predicted No Effect Concentration (PNEC)

See values below.

	Component	Fresh water	Fresh water sediment		Microorganisms in sewage treatment	, ,
	Nickel(II) chloride	PNEC = 0.3136µg/L		PNEC = 3.136µg/L		
-	7718-54-9 (-)					

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber Nitrile rubber	See manufacturers recommendations	-	EN 374	(minimum requirement)
Neoprene	rocommondations			
PVC				

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability,

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Dexterity, Operational conditions. User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

When workers are facing concentrations above the exposure limit they must use **Respiratory Protection**

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits Large scale/emergency use

> are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

Solid

5% aq.sol

Solid

Solid

Method - No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Solid

Green **Appearance** Odorless Odor

Odor Threshold No data available

1001 °C Melting Point/Range

Softening Point No data available **Boiling Point/Range** No information available

Flammability (liquid) Not applicable

Flammability (solid, gas) No information available

No data available **Explosion Limits**

No information available Flash Point

Autoignition Temperature No data available

> 140°C **Decomposition Temperature**

4-6 pН

Viscosity Not applicable Water Solubility 2540 g/l water (20°C) No information available

Solubility in other solvents

Partition Coefficient (n-octanol/water)

1 mmHg @ 615.6 °C **Vapor Pressure**

Density / Specific Gravity

Bulk Density 1.92 g/cm3

Vapor Density Not applicable

Particle characteristics No data available

9.2. Other information

Molecular Formula CI2 Ni . 6 H2 O

Molecular Weight 237.71

Evaporation Rate Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

Nickel(II) chloride hexahydrate

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

No information available.

10.4. Conditions to avoid

Avoid dust formation. Excess heat. Incompatible products.

10.5. Incompatible materials

Strong acids. Peroxides. Metals.

10.6. Hazardous decomposition products

Chlorine. Burning produces obnoxious and toxic fumes. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity;

Oral Category 3
Dermal No data available
Inhalation Category 3

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel(II) chloride hexahydrate	LD50 = 105 mg/kg (Rat)	-	-
Nickel(II) chloride	LD50 = 175 mg/kg (Rat)	-	-

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory Category 1 **Skin** Category 1

May cause sensitization by skin contact

(e) germ cell mutagenicity; Category 2

Possible risk of irreversible effects

(f) carcinogenicity; Category 1A

The table below indicates whether each agency has listed any ingredient as a carcinogen

May cause cancer by inhalation

Component	EU	UK	Germany	IARC
Nickel(II) chloride hexahydrate				Group 1

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Nickel(II) chloride	Carc Cat. 1A	Cat. 1	Group 1

(g) reproductive toxicity; Category 1B

Reproductive Effects May cause harm to the unborn child.

No data available (h) STOT-single exposure;

(i) STOT-repeated exposure; Category 1

Target Organs Skin, Respiratory system.

Not applicable (j) aspiration hazard;

Solid

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

11.2. Information on other hazards

Assess endocrine disrupting properties for human health. This product does not contain any **Endocrine Disrupting Properties**

known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity **Ecotoxicity effects**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the

environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Nickel(II) chloride	LC50: = 6.9 mg/L, 96h static	EC50: = 0.51 mg/L, 48h Static	EC50: 0.0063 - 0.0125 mg/L,
	(Cyprinus carpio)	(Daphnia magna)	96h static (Pseudokirchneriella
	LC50: = 1.3 mg/L, 96h	EC50: = 6.68 mg/L, 48h	subcapitata)
	semi-static (Cyprinus carpio)	(Daphnia magna)	EC50: = 0.66 mg/L, 72h
	LC50: > 100 mg/L, 96h static		(Pseudokirchneriella subcapitata)
	(Brachydanio rerio)		
	LC50: 2.83 - 5.99 mg/L, 96h		
	static (Poecilia reticulata)		
	LC50: 29.76 - 43.57 mg/L, 96h		
	semi-static (Poecilia reticulata)		
	LC50: = 9.65 mg/L, 96h		
	flow-through (Poecilia reticulata)		
	LC50: = 25 mg/L, 96h		
	flow-through (Pimephales		
	promelas)		
	LC50: 2.02 - 6.88 mg/L, 96h		
	static (Pimephales promelas)		
	LC50: 1.9 - 4 mg/L, 96h		
	(Pimephales promelas)		
	LC50: 6.63 - 9.15 mg/L, 96h		
	static (Oncorhynchus mykiss)		
	LC50: 6.7 - 9.7 mg/L, 96h		
	flow-through (Oncorhynchus		
	mykiss)		

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Component	Microtox	M-Factor
Nickel(II) chloride hexahydrate		1
Nickel(II) chloride		1

12.2. Persistence and degradability

Persistence Soluble in water, Persistence is unlikely, based on information available.

Degradability Not relevant for inorganic substances.

Degradation in sewage Contains substances known to be hazardous to the environment or not degradable in waste

treatment plant water treatment plants.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

The product is water soluble, and may spread in water systems Will likely be mobile in the 12.4. Mobility in soil

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Should not be released into the environment. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in

accordance with local regulations.

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Do not empty into drains. Do not let this

chemical enter the environment.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

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SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN3288

14.2. UN proper shipping name Toxic solid, inorganic, n.o.s.

Technical Shipping Name Nickel (II) chloride

14.3. Transport hazard class(es) 6.1 14.4. Packing group III

ADR

14.1. UN number UN3288

Toxic solid, inorganic, n.o.s. 14.2. UN proper shipping name

Technical Shipping Name Nickel (II) chloride

14.3. Transport hazard class(es) 6.1 Ш 14.4. Packing group

IATA

UN3288 14.1. UN number

Toxic solid, inorganic, n.o.s. 14.2. UN proper shipping name Nickel (II) chloride

Technical Shipping Name 6.1

14.3. Transport hazard class(es) 14.4. Packing group Ш

14.5. Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

No special precautions required. 14.6. Special precautions for user

14.7. Maritime transport in bulk Not applicable, packaged goods

according to IMO instruments

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Nickel(II) chloride hexahydrate	7791-20-0	-	-	-	X	X	-	X	X
Nickel(II) chloride	7718-54-9	231-743-0	-	-	X	X	KE-25837	Х	X

	Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Γ	Nickel(II) chloride hexahydrate	7791-20-0	-	-	-	-	X	Х	X
Γ	Nickel(II) chloride	7718-54-9	Х	ACTIVE	Х	-	Х	Х	Х

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Authorisation/Restrictions according to EU REACH

Component CAS No REACH (1907/2006) - REACH (1907/2006) - REACH Regulation (E	Component	CAS No	REACH (1907/2006) -		REACH Regulation (EC
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		Annex XIV - Substances Subject to Authorization	Annex XVII - Restrictions on Certain Dangerous Substances	1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Nickel(II) chloride hexahydrate	7791-20-0	-	Use restricted. See item 27. (see link for restriction details)	-
Nickel(II) chloride	7718-54-9	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) Use restricted. See item 27. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Nickel(II) chloride hexahydrate	7791-20-0	Not applicable	Not applicable
Nickel(II) chloride	7718-54-9	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

Take note of Dir 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Nickel(II) chloride	WGK3	

Component	France - INRS (Tables of occupational diseases)
Nickel(II) chloride	Tableaux des maladies professionnelles (TMP) - RG 37,RG 37bis

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Swiss Regulations

Article 4 para, 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit, f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

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

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate VOC - (volatile organic compound)

Kev literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical incident response training.

Health, Safety and Environmental Department **Prepared By**

Creation Date 04-Apr-2014 **Revision Date** 10-Feb-2024

Revision Summary New emergency telephone response service provider.

Revision Date 10-Feb-2024

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

Disclaimer

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End of Safety Data Sheet