

	Nickel Chloride		Solution	Pricing >	
	Nickel(II) Chlori		ide	<u>Pricing ></u>	
	Ultra Dry Nickel		<u>l Chloride</u>	Pricing >	
Linear Formula			NiCl ₂		
Pubchem CID			24385		
MDL Number		er	MFCD00011142		
EC No.			231-743-0		
IUPAC Name		e	dichloronickel		
Beilstein/Reaxys No.		axys	N/A		
SMILES			CI[Ni]CI		
Inchl Identifier		ier	InChI=1S/2CIH.Ni/h2*1H;/q;;+2/p-2		
Inchl Key			QMMRZOWCJAIUJA-UHFFFAOYSA-L		
Signal Word Dange		Dange	ar		
-	Hazard H301 + H331-H315-H317-H334-H341-H350i-H360I Statements H372-H410			341-H350i-H360D-	
ŀ	Hazard Codes T,N				
			P261-P280-P284-P301 + P310 + P330-P304 + + P312-P308 + P313-P403 + P233		
F	Flash Point Not ap		oplicable		
F	Risk Codes 45-25-		36/38-43-50		
Safety Statements 53-26-		53-26-	36/37-45-61		
-	RTECS Number		75000		
			38 - class 6.1 - PG 3 - EHS - RQ - Toxic solid, nic, n.o.s., HI: all		
	WGK Germany ³				
GHS Pictograms		GHS	009 Environment 008 Health Hazard 006 Skull and Cros	-	

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #7718-54-9

Relevant identified uses of the substance: Scientific research and development

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral(Category 4), H302 Respiratory sensitisation(Category 1), H334 Skin sensitisation(Category 1), H317 Germ cell mutagenicity(Category 2), H341 Carcinogenicity(Category 1A), H350 Reproductive toxicity(Category 1B), H360 Specific target organ toxicity -repeated exposure(Category 1), H372 Acute aquatic toxicity(Category 1), H400 Chronic aquatic toxicity(Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements Pictogram



Signal word Danger Hazard statement(s) H302 Harmful if swallowed. 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. 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 skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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. P285 In case of inadequate ventilation wear respiratory protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS-none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures Synonyms: Nickel(II) chloride Component Nickel(II) chloride CAS-No. 7718-54-9 EC-No. 231-743-0 Index-No. 028-011-00-6

Classification Acute Tox.3; Skin Irrit.2; Resp. Sens.1; Skin Sens.1; Muta.2; Carc.1A; Repr.1B; STOT RE1;Aquatic Acute 1; Aquatic Chronic 1; H301 + H331, H315, H317, H334, H341, H350, H360, H372, H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

Description of first aid measures General advice Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Hydrogen chloride gas, Nickel/nickel oxides Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning uр Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects Specific end use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 EN 166(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. **Body Protection** Complete suit protecting against chemicals, 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 full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Form: liquid Odor No data available Odor Threshold

No data available bН No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Water solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscositv No data available Explosive properties No data available Oxidizing properties No data available Other safety information No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Peroxides Hazardous decomposition products Other decomposition products-No data available In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: 1-Group 1: Carcinogenic to humans(Nickel(II) chloride) NTP: Known to be human carcinogen(Nickel(II) chloride) OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Specific target organ toxicity -single exposure No data available Specific target organ toxicity -repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS: Not available** Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach-Irregularities-Based on Human Evidence Stomach-Irregularities-Based on Human Evidence(Nickel(II) chloride)

SECTION 12. ECOLOGICAL INFORMATION

Toxicity No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Nickel(II) chloride) Marine pollutant: yes IATA UN number: 3082 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.(Nickel(II) chloride) Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Nickel(II) chloride CAS-No. 7718-54-9 **Revision Date** 1993-04-24 SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Nickel(II) chloride CAS-No. 7718-54-9 **Revision Date** 1993-04-24 Pennsylvania Right To Know Components Water CAS-No. 7732-18-5 **Revision Date** Nickel(II) chloride 7718-54-9 1993-04-24 New Jersey Right To Know Components Water CAS-No.7732-18-5 **Revision Date** 1993-04-24 Nickel(II) chloride 7718-54-9 California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. CAS-No. 7718-54-9 **Revision Date** 2007-09-28 Nickel(II) chloride

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present

state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.