

SAFETY DATA SHEET

Revision Date 10-Feb-2015 Revision Number 1

1. Identification

Product Name Nickel(II) chloride

Cat No.: AC387320000; AC387320500; AC387322500

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Entity / Business Name E

Fisher Scientific Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Fair Lawn, NJ 07410 Tel: (201) 796-7100 **Emergency Telephone Number**

For information US call: 001-800-ACROS-01

/ 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

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B
Specific target organ toxicity - (repeated exposure)	Category 1

Label Elements

Signal Word

Danger

Hazard Statements

Toxic if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction

Toxic if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Suspected of causing genetic defects
May cause cancer by inhalation
May damage the unborn child

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %	
Nickel(II) chloride	7718-54-9	99.99	

4. First-aid measures

Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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

clothes and shoes. Immediate medical attention is required.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion Call a physician immediately. Clean mouth with water.

Most important symptoms/effects 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

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Hydrogen chloride gas Burning produces obnoxious and toxic fumes

Protective Equipment and Precautions for Firefighters

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

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental PrecautionsSee Section 12 for additional ecological information. Avoid release to the environment.

Collect spillage.

Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for **Up** disposal. Do not let this chemical enter the environment.

	7. Handling and storage
Handling	Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel(II) chloride	TWA: 0.1 mg/m ³	(Vacated) TWA: 0.1 mg/m ³	IDLH: 10 mg/m ³
	_		TWA: 0.015 mg/m ³

Component	Component Quebec Mexico OEL (TWA)		Ontario TWAEV	
Nickel(II) chloride	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m³ STEL: 0.3 mg/m³	TWA: 0.1 mg/m³	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face ProtectionWear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StatePowder SolidAppearanceYellowOdorOdorless

Odor ThresholdNo information availablepHNo information availableMelting Point/Range1001 °C / 1833.8 °FBoiling Point/RangeNo information available

Flash Point

Flash Point

Evaporation Rate

Flammability (solid,gas)

No information available
No information available
No information available
No information available

Flammability or explosive limits

Upper No data available
Lower No data available

Vapor Pressure
Vapor Density
Relative Density
Solubility
No information available
No data available
No data available

Autoignition Temperature

No data available
No information available

Decomposition Temperature

No information available

Viscosity

No information available

Molecular FormulaCI2 NiMolecular Weight129.6

10. Stability and reactivity

Reactive Hazard None known, based on information available

Revision Date 10-Feb-2015 Nickel(II) chloride

Stability Stable under normal conditions. Hygroscopic.

Conditions to Avoid Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Peroxides

Hazardous Decomposition Products Hydrogen chloride gas, Burning produces obnoxious and toxic fumes

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel(II) chloride	175 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by inhalation and skin contact

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

May cause cancer by inhalation.

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ī	Nickel(II) chloride	7718-54-9	Group 1	Not listed	Not listed	Χ	Not listed

Mutagenic Effects Possible risk of irreversible effects

Reproductive Effects May cause harm to the unborn child.

No information available. **Developmental Effects**

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

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

Endocrine Disruptor Information No information available

See actual entry in RTECS for complete information. Other Adverse Effects

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Nickel(II) chloride	0.66 mg/L EC50 = 72 h	2.83 - 5.99 mg/L LC50 96 h	Not listed	0.51 mg/L EC50 = 48 h 6.68
	0.0063 - 0.0125 mg/L EC50	29.76 - 43.57 mg/L LC50 96		mg/L EC50 = 48 h
	96 h	h 9.65 mg/L LC50 96 h 25		_
		mg/L LC50 96 h 2.02 - 6.88		

mg/L LC50 96 h 1.9 - 4 mg/L LC50 96 h 6.63 - 9.15 mg/L LC50 96 h 6.7 - 9.7 mg/L LC50 96 h 18.1 - 25.5 mg/L LC50 96 h 6.9 mg/L LC50 96 h 100 mg/L LC50 96 h 1.3 mg/L LC50 96 h

Persistence and Degradability Bioaccumulation/ Accumulation

No information available No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3288
Hazard Class 6.1
Packing Group III

<u>TDG</u>

UN-No UN3288
Hazard Class 6.1
Packing Group III

IATA

UN-No 3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.*

Hazard Class 6.1
Packing Group

IMDG/IMO

UN-No 3288

Proper Shipping Name TOXIC SOLID, INORGANIC, N.O.S.

Hazard Class 6.1 Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Nickel(II) chloride	X	Χ	-	231-743-0	•		Χ	Χ	Χ	Х	Χ

Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Nickel(II) chloride	7718-54-9	99.99	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes **Chronic Health Hazard** Yes **Fire Hazard** Yes **Sudden Release of Pressure Hazard** No **Reactive Hazard** No

Clean Water Act

Comp	onent	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nickel(II)	chloride	X	-	X	-

Clean Air Act Not applicable **HAPS Data Class 1 Ozone Depletors Class 2 Ozone Depletors** Component Nickel(II) chloride Х

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs		
Nickel(II) chloride	100 lb	-		

California Proposition 65 Component

This product does not contain any Proposition 65 chemicals

Component	CAS-No	California F	California Prop. 65		Prop 65 NSRL		Category		
Nickel(II) chloride	7718-54-9	Carcino	en -		Carcinogen				
State Right-to-Know									
Component	Massachusetts	New Jersey	Pennsylvania		Illinois		Rhode Island		
Nickel(II) chloride	Х	Х)	X	Х		X		

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1A Very toxic materials

D2A Very toxic materials B4 Flammable solid



16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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 10-Feb-2015

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS