

Nickel(II) Acetate Tetrahydrate Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 06/02/2016

SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form : Substance

Substance name : Nickel(II) Acetate Tetrahydrate

Formula : $C_4H_6NiO_4\cdot 4H_2O$ Molecular weight : 248.84 g/mol CAS No. : 6018-89-9

Product code : LW-C4H6NiO4

Synonyms : Acetic acid nickel(II) salt

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

Use of the substance/mixture : Laboratory chemicals, Synthesis of substances

1.3. Emergency telephone number

Emergency number : 1.800.424.9300 (USA)

+1.703.527.3887 (INT)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Respiratory sensitization (Category 1), H334

Carcinogenicity (Category 1B), H350

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

2.2. GHS Label elements, including precautionary statements

Pictogram :

Signal word : Danger

Hazard statement(s)

H302 : Harmful if swallowed.

H334 : May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

H350 : May cause cancer.

Precautionary statement(s)

P201 : Obtain special instructions before use.

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P202	: Do not handle until all safety precautions have been read and understood.
P261	: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	: Wash skin thoroughly after handling.
P270	: Do not eat, drink or smoke when using this product.
P281	: Use personal protective equipment as required.
P285	: In case of inadequate ventilation wear respiratory protection.
P301 + P312 + P330	: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
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.
P405	: Store locked up.
P501	 Dispose of contents/ container to an approved waste disposal plant.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

none

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

Component	Classification	Concentration
Nickel di(acetate)	Acute Tox. 4; Skin Sens. 1;	<= 100 %
	Carc. 1B; H302, H317, H350	

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

SECTION 4: Description of first aid measures

4.1. Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

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First-aid measures after ingestion

: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
Nickel di(acetate)	6018-89-9	TWA	1.000000	USA. Occupational Exposure Limits	
			mg/m3	(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	1.000000	USA. Occupational Exposure Limits	
			mg/m3	(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	0.015000	USA. NIOSH Recommended	
			mg/m3	Exposure Limits	
	Remarks	Potential Occupational Carcinogen See Appendix A			
		TWA	1 mg/m3	USA. Occupational Exposure Limits	
				(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		Potential Occupational Carcinogen			
		See Appendix A			
		PEL	0.05 mg/m3	California permissible exposure	
				limits for chemical contaminants	
				(Title 8, Article 107)	

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8.2. 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.

8.3. Personal protective equipment

Eye 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659

87300, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

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Respiratory protection : Where risk assessment shows air-purifying respirators are

appropriate use a full-face particle respirator type

N100 (US) or type P3 (EN 143) 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).

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let

product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Form: crystalline Odor No data available Odor Threshold No data available рН No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available No data available Flash point No data available **Evaporation rate** No data available Flammability (solid, gas)

Upper/lower flammability or

explosive limits

: No data available

Vapor pressure : No data available Vapor density : No data available

Relative density : 1.798 g/cm3 at 25 °C (77 °F)

Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidizing properties : No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Avoid moisture.

10.5. Incompatible materials

Strong acids, Strong bases

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nickel/nickel oxides

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : LD50 Oral - Rat - 350 mg/kg

Inhalation: No data available
Dermal: No data available

No data available

Skin corrosion/irritation : No data available
Serious eye damage/irritation : No data available
Respiratory or skin sensitization : no data available

Germ cell mutagenicity : Mouse

mammary gland
Cytogenetic analysis

Rat

DNA damage

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

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IARC: : 1 - Group 1: Carcinogenic to humans (Nickel di(acetate))

NTP: : Known to be human carcinogen (Nickel di(acetate))

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 : Presumed human reproductive toxicant

Reproductive toxicity - Rat - Oral

Effects on Newborn: Viability index (e.g., # alive at day 4 per #

born alive).

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: QR6126000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity : No data available

12.2. Persistence and degradability : No data available

12.3. Bioaccumulative potential : No data available

12.4. Mobility in soil : No data available

12.5. Results of PBT and vPvB : PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal

company. 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.

Contaminated Packaging : Dispose of as unused product.

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SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

UN number : 3077
Class : 9
Packing group : III

EMS-No F-A, S-F

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Nickel di(acetate))

Marine pollutant : yes

IATA

UN number : 3077
Class : 9
Packing group : III

Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Nickel

di(acetate))

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:

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6018-89-9 1993-04-24

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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Pennsylvania Right To Know Components

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New Jersey Right To Know Components

Nickel di(acetate) CAS-No. Revision Date

6018-89-9 1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known

to the State of California to cause cancer.

Nickel di(acetate)

CAS-No. Revision Date 6018-89-9 1993-04-24

SECTION 16: Other information

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

Acute Tox. : Acute toxicity

Carc : Acute aquatic toxicity
H302 : Harmful if swallowed.

H317 : May cause an allergic skin reaction.

H334 : May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

H350 : May cause cancer.
Skin Sens. : Skin sensitization

HMIS Rating

Health Hazard : 2
Chronic Health Hazard : *
Flammability : 0
Physical Hazard : 0

NFPA Rating

Health hazard : 2
Fire Hazard : 0
Reactivity Hazard : 0

Further Information

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