

NICKEL(II) ACETATE TETRAHYDRATE, REAGENT GRADE

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: NICKEL(II) ACETATE TETRAHYDRATE, REAGENT GRADE

CAS number: 6018-89-9

Product code: IN2668-1

Synonyms: NICKEL DIACETATE TETRAHYDRATE

NICKELOUS ACETATE TETRAHYDRATE

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

1.3. Details of the supplier of the safety data sheet

Company name:	Apollo Scientific Ltd
	Units 3 & 4
	Parkway
	Denton
	Manchester
	M34 3SG
	UK
Tel:	0161 337 9971
Fax:	0161 336 6932
Email:	david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP:	T: R49; T: R61; Xn: R20/22; Sens.: R42/43; T: R48/23; N: R50/53; Xn: R68
Classification under CLP:	Acute Tox. 4: H302+332; Repr. 1A: H360D; Aquatic Acute 1: H400; Aquatic Chronic 1:
	H410; Carc. 1A: H350; Muta. 2: H341; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT
	RE 1: H372
Most important adverse effects:	May cause cancer by inhalation. May cause harm to the unborn child. Harmful by
	inhalation and if swallowed. May cause sensitisation by inhalation and skin contact.
	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment. Possible risk of irreversible effects.

2.2. Label elements

Label elements under CLP:

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Hazard statements:H302+332: Harmful if swallowed or if inhaled.H317: May cause an allergic skin reaction.H317: May cause allergy or asthma symptoms or breathing difficulties if inhaled.H341: Suspected of causing genetic defects.H350: May cause cancer.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.Signal words:GHS07: Exclamation markGHS08: Health hazardGHS09: Environmental



Label elements under CHIP:

Hazard symbols: Toxic.

Dangerous for the environment.



Risk phrases: R49: May cause cancer by inhalation.

R61: May cause harm to the unborn child.

R20/22: Harmful by inhalation and if swallowed.

R42/43: May cause sensitisation by inhalation and skin contact.

R48/23: Toxic: danger of serious damage to health by prolonged exposure through

inhalation.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68: Possible risk of irreversible effects.

Precautionary phrases: Restricted to professional users.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: NICKEL(II) ACETATE TETRAHYDRATE, REAGENT GRADE

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ction 4: First aid measures		
4.1. Description of first aid mea	sures	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.	
	Drench the affected skin with running water for 10 minutes or longer if substance is still	
	on skin. Consult a doctor.	
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.	
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	
	to drink immediately. Consult a doctor.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a	
	doctor.	
4.2. Most important symptoms a	and effects, both acute and delayed	
Skin contact:	There may be irritation and redness at the site of contact.	
	There may be irritation and redness. The eyes may water profusely.	
-	There may be soreness and redness of the mouth and throat. Nausea and stomach	
-	pain may occur. There may be vomiting.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.	
	e medical attention and special treatment needed	
ction 5: Fire-fighting measur	5	
5.1. Extinguishing media		
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the	
	surrounding fire should be used. Use water spray to cool containers.	
5.2. Special hazards arising from	n the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Metal oxides.	
5.3. Advice for fire-fighters		
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact	
	with skin and eyes.	
ction 6: Accidental release m	· ·	
6.1. Personal precautions, prote	ective equipment and emergency procedures	
Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from	
	downwind. If outside keep bystanders upwind and away from danger point. Mark out the	
	contaminated area with signs and prevent access to unauthorised personnel.	
6.2. Environmental precautions		
Environmental precautions:	Do not discharge into drains or rivers.	

Environmental precautions: Do not discharge into drains or rivers.

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6.3. Methods and material for co	ontainment and cleaning up	
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate	
	method.	
6.4. Reference to other sections		
Section 7: Handling and storag	9	
7.1. Precautions for safe handling	ng	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
5 - 3 - 1	Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only	
	use in fume hood.	
7.2. Conditions for safe storage	, including any incompatibilities	
Storage conditions.	Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Product is hygroscopic.	
Suitable peckaging	Take precautions to avoid contact with atmospheric moisture. Store under Argon. Must only be kept in original packaging.	
	Must only be kept in original packaging.	
7.3. Specific end use(s)		
Specific end use(s):	No data available.	
Section 8: Exposure controls/p	ersonal protection	
8.1. Control parameters		
Workplace exposure limits:	No data available.	
8.2. Exposure controls		
Engineering measures:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be	
Engineering measures.	-	
Pooniratory protoction:	impermeable to prevent the escape of liquids. Self-contained breathing apparatus must be available in case of emergency. Respiratory	
nespiratory protection.	protective device with particle filter.	
Hand protection:		
-	Safety glasses. Ensure eye bath is to hand.	
	Protective clothing.	
-		
Section 9: Physical and chemical properties		
9.1. Information on basic physic	al and chemical properties	
State:	Crystals	
Relative density:	1.744	
9.2. Other information		

Other information: No data available.

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Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Humidity.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Metal oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis	
Acute toxicity (ac. tox. 4)	INH ING	Based on test data	
Respiratory/skin sensitisation	INH DRM	Based on test data	
Germ cell mutagenicity		Based on test data	
Carcinogenicity		Based on test data	
Reproductive toxicity		Based on test data	
STOT-repeated exposure	-	Based on test data	

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

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	Page:
12.2. Persistence and degradable	lity
Persistence and degradability:	No data available.
12.3. Bioaccumulative potential	
Bioaccumulative potential:	No data available.
12.4. Mobility in soil	
Mobility:	No data available.
12.5. Results of PBT and vPvB a	
PBT identification:	This substance is not identified as a PBT substance.
12.6. Other adverse effects	
	Toxic to aquatic organisms.
ection 13: Disposal considerat	ions
13.1. Waste treatment methods	
Disposal operations:	MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND
	FEDERAL REGULATIONS
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe
	all federal, state and local environmental regulations.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.
ection 14: Transport information	on
14.1. UN number	
UN number:	UN3077
14.2. UN proper shipping name	
Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3. Transport hazard class(es)	
Transport class:	9
14.4. Packing group	~
Packing group:	
1/1.5 Environmental hazarde	
14.5. Environmental hazards	
Environmentally hazardous:	-
Environmentally hazardous: 14.6. Special precautions for us	er
Environmentally hazardous:	er E

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Section 15: Regulatory information		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessme	ont	
-		
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture	
	by the supplier.	
Section 16: Other information		
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No	
	453/2010.	
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by	
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?	
	c=TOXTREE	
	~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-	
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry	
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/	
Phrases used in s.2 and 5:	H302+332: Harmful if swallowed or if inhaled.	
	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 <state conclusively<="" exposure="" if="" is="" it="" of="" route="" th=""><th></th></state>	
	proven that no other routes of exposure cause the hazard>.	
	H350: May cause cancer <state conclusively="" exposure="" if="" is="" it="" no="" of="" other<="" proven="" route="" th="" that=""><th></th></state>	
	routes of exposure cause the hazard>.	
	H360D: May damage the unborn child.	
	H372: Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through</or>	
	prolonged or repeated exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven="" route="" th="" that<=""><th></th></state>	
	no other routes of exposure cause the hazard>.	
	H400: Very toxic to aquatic life.	
	H410: Very toxic to aquatic life with long lasting effects.	
	R20/22: Harmful by inhalation and if swallowed.	
	R42/43: May cause sensitisation by inhalation and skin contact.	
	R48/23: Toxic: danger of serious damage to health by prolonged exposure through	
	inhalation.	
	R49: May cause cancer by inhalation.	
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the	
	aquatic environment.	
	R61: May cause harm to the unborn child.	
	R68: Possible risk of irreversible effects.	
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