

**Cobalt(II) acetate tetrahydrate**

208396-250G

Version 1.4

Revision Date 17.12.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : Cobalt(II) acetate tetrahydrate  
SDS-number : 000000021130  
Type of product : Substance  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.  
  
Chemical name : cobalt di(acetate)  
Index-No. : 027-006-00-6  
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

**1.3. Details of the supplier of the safety data sheet**

Company	: Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone	: (49) 5137-999 0	
For further information, please contact:	: PMTEU Product Stewardship: SafetyDataSheet@Honeywell.com	

**1.4. Emergency telephone number**

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

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Control Center

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### REGULATION (EC) No 1272/2008

Carcinogenicity Category 1B - Inhalation  
H350i May cause cancer by inhalation.  
Germ cell mutagenicity Category 2  
H341 Suspected of causing genetic defects.  
Reproductive toxicity Category 1B  
H360F May damage fertility.  
Respiratory sensitisation Category 1  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin sensitisation Category 1  
H317 May cause an allergic skin reaction.  
Short-term (acute) aquatic hazard Category 1  
H400 Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard Category 1  
H410 Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### REGULATION (EC) No 1272/2008

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H317  
H334  
  
H341  
H350i  
H360F  
H410

May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of causing genetic defects.  
May cause cancer by inhalation.  
May damage fertility.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

P201  
P260

Obtain special instructions before use.  
Do not breathe dust or mist.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Special labelling of certain products : Restricted to professional users.

**2.3. Other hazards**

Avoid exposure - obtain special instructions before use.

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
cobalt di(acetate)	6147-53-1 027-006-00-6 200-755-8	Carc. 1B; H350i; Inhalation Muta. 2; H341 Repr. 1B; H360 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	100 %	M(Aquatic Acute) = 10  Carc. 1B; H350i: >= 0,01 %

**3.2. Mixture**

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water.

*Inhalation:*

When inhaled remove to fresh air and seek medical aid.

*Skin contact:*

After contact with skin, wash immediately with plenty of water. Call a physician if irritation develops or persists.

*Eye contact:*

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

*Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

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

No data available

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

No data available

See Section 11 for more detailed information on health effects and symptoms.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*  
Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Toxic metal oxide fumes  
Carbon dioxide (CO<sub>2</sub>)  
The product itself does not burn.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.  
Exposure to decomposition products may be a hazard to health.  
No unprotected exposed skin areas.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Wear self-contained breathing apparatus and protective suit.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment.

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Pick for disposal in tightly closed containers  
Avoid dust formation.

### 6.4. Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Perform filling operations only at stations with exhaust ventilation facilities. Avoid exposure - obtain special instructions before use. Use product only in closed system.

*Advice on protection against fire and explosion:*

Normal measures for preventive fire protection.

*Hygiene measures:*

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Wash hands before breaks and at the end of workday. When using do not eat or drink.

### 7.2. Conditions for safe storage, including any incompatibilities

*Requirements for storage areas and containers:*

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not leave vessels/containers open. Avoid product residues in/on containers. Store in a place accessible by authorized persons only.

### 7.3. Specific end use(s)

no additional data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
cobalt di(acetate)	EH40 WEL TWA	0,1 mg/m3 as Co		

TWA - Time weighted average

##### DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
cobalt di(acetate)	Workers / Long-term local effects		0,1202 mg/m3	Inhalation	
cobalt di(acetate)	Consumers / Long-term local effects		0,0189 mg/m3	Inhalation	
cobalt di(acetate)	Consumers / Long-term systemic effects		0,0285 mg/m3	Ingestion	

Component	Environmental compartment / Value	Remarks
cobalt di(acetate)	Fresh water: 0,0006 mg/l	
cobalt di(acetate)	Marine water: 0,00236 mg/l	
cobalt di(acetate)	Sewage treatment plant: 0,37 mg/l	Assessment factor: 10
cobalt di(acetate)	Fresh water sediment: 9,5 mg/kg dw	
cobalt di(acetate)	Marine sediment: 9,5 mg/kg dw	

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cobalt di(acetate)	Soil: 10,9 mg/kg dw	
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### 8.2. Exposure controls

#### Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Avoid exposure - obtain special instructions before use.

Usual hygienic precautions must be taken when working with dangerous cancer causing substances.

#### Engineering measures

Use product only in closed system.

Local exhaust

#### Personal protective equipment

##### *Respiratory protection:*

In the case of dust or aerosol formation use respirator with an approved filter.

##### *Hand protection:*

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

##### *Eye protection:*



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Safety glasses with side-shields

*Skin and body protection:*

Wear suitable protective equipment.

Wear as appropriate:

Protective suit

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: solid
Colour	: red
Odour	: odourless
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flammability	: This product is not easily inflammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if used as directed.
pH	: acidic
Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: No data available

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Vapour pressure : negligible  
Density : ca. 1,705 g/cm<sup>3</sup>  
at 20 °C  
Bulk density : ca. 700 kg/m<sup>3</sup>

### 9.2 Other Information

The product is hygroscopic.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Toxic metal oxide fumes  
Flammable gases/vapours

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Rat

Value: 708 mg/kg

*Acute dermal toxicity:*

No data available

*Acute inhalation toxicity:*

No data available

*Skin irritation:*

No data available

*Eye irritation:*

No data available

*Respiratory or skin sensitisation:*

Classification based on Annex VI of regulation 1272/2008/EC.

*Carcinogenicity:*

Note: Classification based on Annex VI of regulation 1272/2008/EC.

*Germ cell mutagenicity:*

Note: Classification based on Annex VI of regulation 1272/2008/EC.

*Reproductive toxicity:*

Remarks: Classification based on Annex VI of regulation 1272/2008/EC.

*Aspiration hazard:*

No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties

No data available

*Other information:*

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

*Toxicity to fish:*

Classification based on Annex VI of regulation 1272/2008/EC.

*Toxicity to aquatic plants:*

Classification based on Annex VI of regulation 1272/2008/EC.

*Toxicity to Microorganisms:*

Classification based on Annex VI of regulation 1272/2008/EC.

*Toxicity to aquatic invertebrates:*

Classification based on Annex VI of regulation 1272/2008/EC.

#### 12.2. Persistence and degradability

*Biodegradability:*

The methods for determining biodegradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID:3077

IMDG:3077

IATA:3077

#### 14.2 UN proper shipping name

ADR/RID:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(COBALT(II) ACETATE-4-HYDRATE)

IMDG:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(COBALT(II) ACETATE-4-HYDRATE)

IATA:Environmentally hazardous substance, solid, n.o.s.(Cobalt(II) acetate-4-hydrate)

#### 14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

#### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

#### 14.5 Environmental hazards

ADR/RID: yes

Marine pollutant: yes

#### 14.6 Special precautions for user

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for

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solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+359)29154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250

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Finland	9471977	Romania	+40 21 318 3606
France	+33(0)145425959	Slovakia (NTIC)	+421 2 54 774 166
Greece	+30 210 779 3777	Slovenia	+386 1 400 6051
Hungary	(+36-80)201-199	Spain	+34915620420
Iceland	5432222	Sweden	112 (begär Giftinformation);+46104566786
Ireland	+353(1)8092166	Switzerland	145
Italy	0382 24444	United Kingdom	(+44) 844 892 0111
Germany	Berlin : 030/19240		
	Bonn : 0228/19240		
	Erfurt : 0361/730730		
	Freiburg : 0761/19240		
	Göttingen : 0551/19240		
	Homburg : 06841/19240		
	Mainz : 06131/19240		
	Munich : 089/19240		
Latvia	+37167042473		

**Other inventory information**

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)  
Not in compliance with the inventory

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China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

cobalt di(acetate)	:	H350i	May cause cancer by inhalation.
		H341	Suspected of causing genetic defects.
		H360	May damage fertility or the unborn child.
		H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
		H317	May cause an allergic skin reaction.
		H400	Very toxic to aquatic life.
		H410	Very toxic to aquatic life with long lasting effects.

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

#### Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level



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vPvB Very persistent and very biaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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