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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Trade name</td>
<td>Cobalt (II) chloride hexahydrate EPR</td>
</tr>
<tr>
<td>EC index no</td>
<td>027-004-00-5</td>
</tr>
<tr>
<td>EC no</td>
<td>231-589-4</td>
</tr>
<tr>
<td>CAS No</td>
<td>7791-13-1</td>
</tr>
<tr>
<td>REACH registration No</td>
<td>05-2115399787-19</td>
</tr>
<tr>
<td>Product code</td>
<td>COCH-06P</td>
</tr>
<tr>
<td>Formula</td>
<td>CoCl2 · 6 H2O</td>
</tr>
</tbody>
</table>

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

1.2.1. Relevant identified uses

Main use category: Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labbox labware s.l.
Joan Peiró i Belis, 2
08339 Vilassar de Dalt - ES
T +34 937 552 084 - F +34 937 909 532
info@labkem.com - www.labkem.com

1.4. Emergency telephone number

Emergency number: +34 937 552 084 (Office Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>H Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral), Category 4</td>
<td>H302</td>
</tr>
<tr>
<td>Sensitisation — Respiratory, Category 1</td>
<td>H334</td>
</tr>
<tr>
<td>Sensitisation — Skin, Category 1</td>
<td>H317</td>
</tr>
<tr>
<td>Germ cell mutagenicity, Category 2</td>
<td>H341</td>
</tr>
<tr>
<td>Carcinogenicity (inhalation) Category 1A</td>
<td>H350i</td>
</tr>
<tr>
<td>Reproductive toxicity, Category 1A</td>
<td>H360F</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
<td>H410</td>
</tr>
</tbody>
</table>

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP): ![GHS07](https://example.com), ![GHS08](https://example.com), ![GHS09](https://example.com)

Signal word (CLP): Danger

Hazard statements (CLP): H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
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Precautionary statements (CLP):

- P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water
- P304+P340 - IF INHALED: 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

2.3. Other hazards
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt (II) chloride hexahydrate</td>
<td>(CAS No) 7791-13-1</td>
<td>&gt;= 98</td>
</tr>
<tr>
<td></td>
<td>(EC no) 231-589-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC index no) 027-004-00-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH no) 05-2115399787-19</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statement: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation: Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. Assure fresh air breathing.
First-aid measures after skin contact: When symptoms occur: rinse immediately with plenty of water. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact: 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.
First-aid measures after ingestion: Call a physician immediately. Rinse mouth. Do not induce vomiting. Give nothing or a little water to drink. Obtain emergency medical attention.

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

Symptoms/injuries after inhalation: Shortness of breath.
Symptoms/injuries after skin contact: Irritation.
Symptoms/injuries after eye contact: Eye irritation.
Symptoms/injuries after ingestion: Harmful if swallowed.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Fire hazard: Non combustible.

5.3. Advice for firefighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Ventilate spillage area.
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6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
Avoid release to the environment. Risk of explosion.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage.
Methods for cleaning up: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage temperature: 5 - 30 °C
Storage area: Store in a well-ventilated place. Store away from heat.
Special rules on packaging: Store in a closed container. Keep only in original container.

7.3. Specific end use(s)
Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:
protective gloves

Skin and body protection:
Wear suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Colour: dark red.
Odour: odourless.
Odour threshold: No data available
pH: 4.9 (5%, 25 °C)
Relative evaporation rate (butylacetate=1): No data available
Melting point: 56 °C
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 1.95 g/dm3 (25 °C)
Solubility: Water: 76 gr/100cm³ g/dm3 (0°C)
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Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
metals.

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Cobalt (II) chloride hexahydrate EPR (7791-13-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 4.9 (5%, 25°C)

Serious eye damage/irritation: Not classified
pH: 4.9 (5%, 25°C)

Respiratory or skin sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: May cause cancer by inhalation.

Reproductive toxicity: May damage fertility.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Cobalt (II) chloride hexahydrate EPR (7791-13-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
</tr>
<tr>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
</tr>
</tbody>
</table>

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

| UN-No. (ADR) | 3077 |
| UN-No. (IMDG) | 3077 |
| UN-No. (IATA) | 3077 |
| UN-No. (ADN) | 3077 |
| UN-No. (RID) | 3077 |

14.2. UN proper shipping name

| Proper Shipping Name (ADR) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper Shipping Name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper Shipping Name (IATA) | Environmentally hazardous substance, solid, n.o.s. |
| Proper Shipping Name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper Shipping Name (RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Transport document description (ADR) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt (II) chloride hexahydrate), 9, III, (E) |
| Transport document description (IMDG) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT |
| Transport document description (IATA) | UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III |
| Transport document description (ADN) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III |
| Transport document description (RID) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III |

14.3. Transport hazard class(es)

ADR

| Transport hazard class(es) (ADR) | 9 |
| Danger labels (ADR) | 9 |

IMDG

| Transport hazard class(es) (IMDG) | 9 |
| Danger labels (IMDG) | 9 |

IATA

| Transport hazard class(es) (IATA) | 9 |
| Hazard labels (IATA) | 9 |
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### ADN
- **Transport hazard class(es) (ADN)**: 9
- **Danger labels (ADN)**: 9

### RID
- **Transport hazard class(es) (RID)**: 9
- **Danger labels (RID)**: 9

### 14.4. Packing group
- **Packing group (ADR)**: III
- **Packing group (IMDG)**: III
- **Packing group (IATA)**: III
- **Packing group (ADN)**: III
- **Packing group (RID)**: III

### 14.5. Environmental hazards
- **Dangerous for the environment**: Yes
- **Marine pollutant**: Yes
- **Other information**: No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport
- **Classification code (ADR)**: M7
- **Special provisions (ADR)**: 274, 335, 601, 375
- **Limited quantities (ADR)**: 5kg
- **Excepted quantities (ADR)**: E1
- **Packing instructions (ADR)**: P002, IBC08, LP02, R001
- **Special packing provisions (ADR)**: PP12, B3
- **Mixed packing provisions (ADR)**: MP10
- **Portable tank and bulk container instructions (ADR)**: T1, BK1, BK2
- **Portable tank and bulk container special provisions (ADR)**: TP33
- **Tank code (ADR)**: SGAV, LGBV
- **Vehicle for tank carriage**: AT
- **Transport category (ADR)**: 3
- **Special provisions for carriage - Packages (ADR)**: V13
- **Special provisions for carriage - Bulk (ADR)**: VC1, VC2
- **Special provisions for carriage - Loading, unloading and handling (ADR)**: CV13
- **Hazard identification number (Kemler No.)**: 90
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| Orange plates : | 90 3077 |
| Tunnel restriction code (ADR) : | E |
| EAC code : | 2Z |

### - Transport by sea

- **Special provisions (IMDG)** : 274, 335, 966, 967
- **Limited quantities (IMDG)** : 5 kg
- **Excepted quantities (IMDG)** : E1
- **Packing instructions (IMDG)** : P002, LP02
- **Special packing provisions (IMDG)** : PP12
- **IBC packing instructions (IMDG)** : IBC08
- **IBC special provisions (IMDG)** : B3
- **Tank instructions (IMDG)** : T1, BK1, BK2, BK3
- **Tank special provisions (IMDG)** : TP33
- **EmS-No. (Fire)** : F-A
- **EmS-No. (Spillage)** : S-F
- **Stowage category (IMDG)** : A

### - Air transport

- **PCA Exected quantities (IATA)** : E1
- **PCA Limited quantities (IATA)** : Y956
- **PCA limited quantity max net quantity (IATA)** : 30kgG
- **PCA packing instructions (IATA)** : 956
- **PCA max net quantity (IATA)** : 400kg
- **CAO packing instructions (IATA)** : 956
- **CAO max net quantity (IATA)** : 400kg
- **Special provisions (IATA)** : A97, A158, A179, A197
- **ERG code (IATA)** : 9L

### - Inland waterway transport

- **Classification code (ADN)** : M7
- **Special provisions (ADN)** : 274, 335, 61
- **Limited quantities (ADN)** : 5 kg
- **Excepted quantities (ADN)** : E1
- **Carriage permitted (ADN)** : T* B**
- **Equipment required (ADN)** : PP, A
- **Number of blue cones/lights (ADN)** : 0
- **Additional requirements/Remarks (ADN)** : * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. * * Only in the case of transport in bulk.

### - Rail transport

- **Classification code (RID)** : M7
- **Special provisions (RID)** : 274, 335, 601
- **Limited quantities (RID)** : 5kg
- **Excepted quantities (RID)** : E1
- **Packing instructions (RID)** : P002, IBC08, LP02, R001
- **Special packing provisions (RID)** : PP12, B3
- **Mixed packing provisions (RID)** : MP10
- **Portable tank and bulk container instructions (RID)** : T1, BK1, BK2
- **Portable tank and bulk container special provisions (RID)** : TP33
- **Tank codes for RID tanks (RID)** : SGAV, LGBV
- **Transport category (RID)** : 3
- **Special provisions for carriage – Packages (RID)** : W13
- **Special provisions for carriage – Bulk (RID)** : VW1
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Special provisions for carriage - Loading, unloading and handling (RID)

- CW13, CW31
- CE11
- 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Cobalt dichloride is on the REACH Candidate List
Cobalt (II) chloride hexahydrate EPR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany
VwVwS Annex reference
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV
Water hazard class (WGK) 3, severe hazard to waters (KBwS-Beschluss; ID No. 493)
Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen
SZW-lijst van mutagene stoffen
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling
The substance is not listed
The substance is not listed
The substance is not listed
The substance is not listed

Denmark
Recommendations Danish Regulation
Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity (inhalation) Category 1A</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
</tr>
<tr>
<td>Repr. 1A</td>
<td>Reproductive toxicity, Category 1A</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>Sensitisation — Respiratory, Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H350i</td>
<td>May cause cancer by inhalation</td>
</tr>
<tr>
<td>H360F</td>
<td>May damage fertility</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
Cobalt (II) chloride hexahydrate EPR
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SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.