

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 15.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.200890.00000  
Product Name Cobalt (II) Chloride Hexahydrate  
Cas no 7791-13-1

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

#### 1.2.1. Relevant identified uses

Use as a laboratory reagent.

#### 1.2.2. Uses advised against

No information available.

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

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
E-mail erhan@tekkim.com.tr  
Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute toxicity, Oral, Category 4  
Respiratory sensitization, Category 1  
Skin sensitizer, Category 1  
Germ cell mutagenicity, Category 2  
Carcinogenicity, If inhaled, Category 1B  
Reproductive toxicity, Category 1B  
Short term (acute) aquatic hazard, Category 1  
Long (chronic) aquatic hazard, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H302 Harmful if swallowed.  
H317 Causes an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66  
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## Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340+P312 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Call the NATIONAL POISON ADVICE CENTER or doctor/physician immediately.

P308+P313 IF exposed and concerned: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients

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

### 3.1 Maddeler

EC No	231-589-4
Molar mass	237.90 g/mol
Cas No	7791-13-1
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
Following ingestion	Give up to two glasses of water. Get medical help immediately.

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

The most important known symptoms and effects are described in the labelling

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

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

Hydrogen chloride gas. Cobalt/cobalt oxides. It is not flammable. Fire may cause evolution of: Hydrogen chloride gas. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

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



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Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

## 6.4 Reference to other sections

Disposal: see section 13.

## 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance. Avoid the formation of dust.

*Advices on general occupational hygiene*

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

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

*Storage conditions*

Keep container tightly closed in dry and well-ventilated places.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

*Eye/face protection*

Safety glasses

*Hand protection*

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm


Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

*Other skin protection*



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Protective clothing.

## Respiratory protection

Required when dusts occur.

Recommended filter type :P 3 Filter (according to DIN 3181) for solid and liquid particles of harmful elements.

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Violet
Odour	Odorless
Odour threshold	Not applicable.
pH value	approx 4.9 50 g/l 25 °C
Melting point/freezing point	56 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	not applicable
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	No information.
Vapour density	No information.
Density	1.92 g/cm <sup>3</sup> 25 °C
Relative density	No information.
Water solubility (g/l)	76 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

There is a risk of explosion with alkali metals.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products


No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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Acute oral toxicity  
LD50 Rat: 766 mg/kg  
(RTECS)  
Symptoms: Chills, diarrhoea.

Acute inhalation toxicity  
Symptoms: Irritant symptoms in the respiratory tract.

Acute dermal toxicity  
LD50 Rat: > 2.000 mg/kg  
(RTECS)

Skin irritation  
Possible damages: slight irritation

Eye irritation  
Possible damages: slight irritation

Sensitivity  
May cause breathing difficulties, asthma attacks or allergies if inhaled.  
Causes allergic skin reactions.

CMR effects  
Carcinogenicity:  
May cause cancer by inhalation.  
Mutagenicity:  
Suspected of causing genetic damage.  
Reproductive toxicity:  
It may harm reproduction.

## 11.2 Additional information

The product has an extremely destructive effect on mucous membranes and tissues of the upper respiratory tract, eyes and skin.

Handle in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Discharge into environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR

IMDG

IATA

ADN

RID



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## 14.1 UN number

UN 3077

UN 3077

UN 3077

UN 3077

UN 3077

## 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains: Cobalt (II) Chloride Hexahydrate), MARINE POLLUTANT,

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## 14.3 Transport hazard class(es)

9

9

9

9

9



## 14.4 Packing group

III

III

III

III

III

## 14.5 Environmental hazards

YES

YES

YES

YES

YES

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

## 14.6 Special Precautions for User:

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H302 Harmful if swallowed.

H317 Causes an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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www.tekkim.com.tr | tekkim@tekkim.com.tr

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