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



Revision Date: 15.08.2022 Version 2

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

1.1 Product identifier

Catalog No. TK.200891.00000

Product Name Cobalt (II) Sulfate Heptahydrate

Cas no 10026-24-1

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

1.2.1. Relevant identified uses

Industrial use. 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. STİ.

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

Eye irritation, Category 2

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.

H319 Causes serious eye irritation.

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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Prevention

P273 Avoid release to the environment.

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

Intervention

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

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

Revision Date: 15.08.2022

Version 2

NATIONAL POISON ADVICE CENTER or doctor/physician immediately. IF exposed and concerned: Get medical advice/attention. P308+P313

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

233-334-2 EC No 281.10 g/mol Molar mass Cas No 10026-24-1 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).

Remove casualty to fresh air and keep warm and at rest.. Following inhalation 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.

Give up to two glasses of water. Get medical help immediately. Following ingestion

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

Sulfur oxides. Cobalt/cobalt oxides. It is not flammable. Fire may cause evolution of: Sulfur oxides.

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

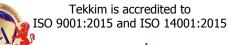
Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures







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Revision Date: 15.08.2022 Version 2



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 subtances 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

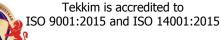
Break through time: >480 minute

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

Other skin protection







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



Protective chlothing.

Respiratory protection

Required when dusts occur.

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

Revision Date: 15.08.2022

Version 2

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state Solid
Colour Red brown
Odour Odorless
Odour threshold Not applicable.

pH value about 4 100 g/l 20 ° C

Melting point/freezing point 98 °C

Freezing point
Initial boiling point and boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No information.
No information.
No information.
No information.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Upper/lower flammability or explosive limits

Vapour pressure

Vapour density

Density

No information.

Not applicable.

Not applicable.

No information.

1.95 g/cm3 20 °C

Relative density

Water solubility (g/l)

Fat solubility (g/l)

Partition coefficient: n-octanol/water

Auto-ignition temperature

No information.

No information.

No information.

No information.

No information.

Decomposition temperature > 41 °C Elimination of water of crystallization.

Viscosity

Kinematic viscosity

Not applicable.

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

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

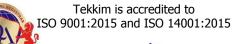
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects







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Acute oral toxicity LD50 Oral - Rat - male and female - 1,330 mg/kg (OECD Testing Guide 401)

Eye irritation Rabbit Result: Eye irritation OECD Test Guideline 405

Sensitivity

Piece test: guinea pig

Method: OECD Test Guideline 406 Causes allergic skin reactions.

May cause breathing difficulties, asthma attacks or allergies if inhaled.

Revision Date: 15.08.2022

Version 2

CMR effects

Carcinogenicity:

May cause cancer by inhalation.

Mutagenicity:

Suspected of causing genetic damage.

Reproductive toxicity: It may harm reproduction.

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

semi-static test LC50 - Pimephales promelas (Carp juvenile) - 1,866 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Ceriodaphnia dubia (dappie) - 0.39 mg/l - 48 h (US-EPA)

Toxicity to algae (algae) static test ErC50 - Pseudokirchneriella subcapitata - 0.095 mg/l - 72h (OECD Testing Guide 201)

Toxicity to bacteria

static test EC50 - activated sludge - 120 mg/l - 30 min

(OECD Testing Guide 209)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

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





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



Version 2

9

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.

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2 UN proper shipping name				
ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS	HAZARDOUS	HAZARDOUS	HAZARDOUS
SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,
N.O.S.(Contains: Cobalt (II)	N.O.S.(Contains: Cobalt (II)	N.O.S.(Contains: Cobalt (II)	N.O.S.(Contains: Cobalt (II)	N.O.S.(Contains: Cobalt (II)
Sulfate Heptahydrate), MARINE	Sulfate Heptahydrate), MARINE	Sulfate Heptahydrate), MARINE	Sulfate Heptahydrate),	Sulfate Heptahydrate),
POLLUTANT,	POLLUTANT,	POLLUTANT,	MARINE POLLUTANT,	MARINE POLLUTANT,
14.3 Transport hazard class(es)				



9





14.4 Packing group

Ш Ш Ш

9

14.5 Environmental hazards

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.

H319 Causes serious eye irritation.

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

H341 Suspected of causing genetic defects.

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Revision Date: 15.08.2022 Version 2



Person Who Prepared the Safety Data Sheet:

Name:
Certificate Number and Date:

Erhan DİLER

Communication information: 11.29.03 & 11 Şubat 2020

05069903686





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