

GHS Safety Data Sheet

SDS No. : COH04XAEG

Date Issued : 2019/06/03

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Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: Co₃(PO₄)₂·xH₂O Cobalt(II)phosphate, hydrous

Product number:	Purity	Form	Size or Shape
COH16XB	99%(2N)	solid	—

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(oral) : Category 4 Respiratory sensitization : Category 1 Skin sensitization : Category 1 Carcinogenicity : Category 2	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified Corrosive to metals : Not classified

GHS Label: C, W



Pictograms or symbols:

Warning word: **DANGER**

Hazard information	Description of precaution
Harmful if swallowed May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergy skin reaction Suspected of causing cancer	Obtain special instructions. Read and understand all safety precautions before handling. Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents/ container in accordance with local/national regulations.



High Purity Materials

KOJUNDO CHEMICAL LABORATORY CO.,LTD.

Section 3. Composition / information on ingredients

Chemical or common name:	Cobalt(II) phosphate octahydrate
Chemical formula:	Co ₃ (PO ₄) ₂ ·8H ₂ O
Synonyms:	Cobaltous phosphate octahydrate
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	10294-50-5
RTECS#:	TB9279500
TSCA inventory :	listed (anhydrous)
EINECS:	2366556 (anhydrous)

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	The product is not combustible. In case of fire, the product may liberate toxic gases/ fume. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
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Precautions to be taken in storage:

General precautions:	Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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Section 8. Exposure controls / personal protection

Exposure guideline:

Chemical Name	ACGIH(2013) TLV-TWA mg/m ³	OSHA(2006) PEL-TWA mg/m ³
Cobalt inorganic compounds (as Co)	0.02	—

Facility measures:

Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware:

Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

Section 9. Physical and chemical properties

Color and Form: Red solid

Chemical formula: Co₃(PO₄)₂·8H₂O

Formula weight: 510.9

Melting point: 200 °C(-8H₂O)Specific gravity: 2.77 g/cm³

Solubility: Insoluble; water

Soluble; phosphoric acid, mineral acid

Flammability: Non-combustible substance

Oxidation: None

Section10. Stability and reactivity

Stability: Stable in closed container under room temperature.

Reactivity

Condition to avoid: heat

Incompatibility: Strong oxidizing agents.

Section11. Toxicological information

Acute toxicity(Oral):

GHS : Category 4 ; Harmful if swallowed
Oral rat LD50 = 539 mg/kg (RTECS(1992))

Skin corrosive / irritation:

GHS : No data available

Serious eye damage / irritation:

GHS : No data available

Respiratory sensitization:

GHS : Category 1 ;

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

Skin sensitization:

GHS : Category 1 ; May cause an allergy skin reaction.

Germ cell mutagenicity:

GHS : No data available

Carcinogenicity:

GHS : Category 2 ; Suspected of causing cancer.

Carcinogenicity:

Chemical Name	ACGIH (2013)	IARC (2018)	NTP (2016)
Cobalt inorganic compounds	A3	2B	—

ACGIH A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans.
IARC Group 2B The agent is possibly carcinogenic to humans.

Reproductive toxicity:

GHS : No data available

Specific target organ toxicity

— single exposure: GHS : No data available

— repeated exposure: GHS : No data available

Aspiration hazard:

GHS : No data available



Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

– acute toxicity: GHS : No data available

– chronic toxicity: GHS : No data available

Hazardous to the ozone layer GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Not hazardous

UN number: None

HS code: 2835.29

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory: Listed. (anhydrous)

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

