

GHS Safety Data Sheet

SDS No. : COE01PAEG

Date Issued: 2014/02/27

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

1.1 Product Information

Product name: Co Cobalt

Product number:	Purity	Form	Size (μ m) or Shape
COE03PB	99% (2N)up	powder	ca. 5

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd

1. 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Sensitisation, respiratory : Category 1 Sensitisation, skin : Category 1 Carcinogenicity : Category 2 Reproductive toxicity : Category 2 Specific target organ toxicity, single exposure : Category 3 repeated exposure : Category 1	Hazardous to the aquatic environment, chronic toxicity : Category 4	Flammable solids : Category 1

GHS Label: F C W



Pictograms or symbols

Warning word: DANGER

Hazard information	Description of precaution
Flammable solid May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergy skin reaction Suspected of causing cancer Suspected of damaging fertility or the unborn child May cause respiratory irritation Causes damage to organs through prolonged or repeated exposure May cause long lasting harmful effects to aquatic life	Obtain special instructions. Read and understand all safety precautions before handling. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting/...equipment. Take precautionary measures static discharge. 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. Avoid release to the environment and collect spillage. IN CASE OF FIRE: Use dry sand, dry sodium chloride based extinguishers or other Class D fire-extinguishing materials for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information :With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Cobalt
Chemical formula:	Co
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7440-48-4
RTECS#:	GF8750000
TSCA inventory:	listed
EINECS:	2311580

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:	Dry sand, dry sodium chloride based extinguishers or other Class D fire -extinguishing materials. Do not use water, foam or carbon dioxide.
Fire fighting:	Remove containers to safe place if possible. 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 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.
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Precautions to be taken in storage:

General precautions:	Store in a cool, dry place away from incompatible materials.
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Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH (2013): Cobalt and inorganic compounds (as Co)	TLV-TWA	0.02 mg/m ³
	OSHA (2006) : Cobalt metal, dust and fume (as Co)	PEL-TWA	0.1 mg/m ³
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, face shields, protective gloves.		

Section 9. Physical and chemical properties

Color and Form:	Grayish white metal powder
Chemical formula:	Co
Atomic weight:	58.93
Melting point:	1495 °C
Boiling point:	2870 °C
Density:	8.90 g/cm ³
Solubility	Water: Insoluble
Flammable:	Flammable substance
Oxidation:	None

Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Oxygen, halogens, strong bases, hydrogen fluoride.
Condition to avoid:	No data available
Hazardous decomposition products:	Cobalt oxides

Section 11. Toxicological information

Acute toxicity :	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eyes damage / eye 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
Reproductive toxicity:	GHS : Category 2 ; Suspected of damaging fertility or the unborn child
Specific target organ toxicity — single exposure:	GHS : Category 3 ; May cause respiratory irritation
Specific target organ toxicity — repeated exposure:	GHS : Category 1 ; Causes damage to organs through prolonged or repeated exposure
Aspiration hazard:	GHS : No data available

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

- acute toxicity: GHS : No data available
- chronic toxicity: GHS : Category 4 ; May cause long lasting harmful effects to aquatic life

Hazardous 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 number: 3089

IATA shipping name: Metal powder, flammable, n.o.s.

IATA classification: Hazardous Class 4.1
(Flammable solids, self-reactive substances and solid desensitized explosives)

IATA packing group: II

HS code: 8105.90

Marine pollution: None

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

Section 15. Regulatory information

TSCA inventory : listed.

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.