

## GHS Safety Data Sheet

SDS No. : COF01PAEG

Date Issued: 2017/08/10

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

#### 1.1 Product Information

Product name: **CoFe<sub>2</sub>O<sub>4</sub> Cobalt-iron oxide(Cobalt-ferrite)**

Product number:	Purity	Form	Size (mm) or Shape
COF01PB	99 %(2N)	powder	—
—	99.9 % (3N)	target	Various shapes, Various sizes

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd  
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### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
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

GHS Label: C



Pictograms or symbols

Warning word: **DANGER**

#### Hazard information

**May cause allergy or asthma symptoms or breathing difficulties if inhaled**  
**May cause an allergic skin reaction**  
**Suspected of causing cancer**

#### Description of precaution

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/fume/vapors. 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 ON SKIN: 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.

#### Additional hazard information :

With respect to additional hazard information, see Section 11.

### Section 3. Composition / information on ingredients

Chemical or common name: Cobalt diiron tetraoxide  
 Synonyms: Cobaltous-ferrite  
 Chemical formula: CoFe<sub>2</sub>O<sub>4</sub>  
 Single Substance or Compound: Single substance  
 Composition: 100%

CAS#: 12052-28-7  
 RTECS#: not listed  
 TSCA inventory: listed  
 EINECS: 2349923

#### 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: The product is nonflammable. Use media appropriate for surrounding fire.  
 Fire fighting: Self-contained breathing apparatus and full protective clothing should be used, if this product 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.  
 Precautions to be taken in storage:  
 General precautions: Store in a cool, dry place away from incompatible materials.  
 Keep container or bottle tightly closed.

#### Section 8. Exposure controls / personal protection

Exposure guideline:	Chemical Name	ACGIH(2013) TLV-TWA mg/m <sup>3</sup>	OSHA(2006) PEL-TWA mg/m <sup>3</sup>
	Cobalt and inorganic compounds (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, ace shields, protective gloves

## Section 9. Physical and chemical properties

Appearance:	Black solid, odorless.
Chemical formula:	CoFe <sub>2</sub> O <sub>4</sub>
Formula weight:	234.6
Melting point:	1500~1800 °C (decomposes)
Boiling point:	No data available
Density:	No data available
Water solubility	No data available
Flammability:	Non-flammable substance
Oxidation:	None

## Section 10. Stability and reactivity

Stability:	Stable in closed container under room temperature.
Reactivity	No data available
Condition to avoid:	No data available
Incompatibility:	No data available

## 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 ; My cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization:	GHS : Category 1 ; May cause an allergic skin reaction
Germ cell mutagenicity:	GHS : No data available.
Carcinogenicity:	GHS ; Category 2 ; Suspected of causing cancer

Chemical Name	ACGIH (2013)	IARC (2016)	NTP (2014)
Cobalt	A3	2B	—

ACGIH A3 Confirmed animal carcinogen with unknown relevance to humans.  
IARC 2B 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:	
Hazards to the aquatic environment	
— acute toxicity:	GHS : No data available
— chronic toxicity:	GHS ; No data available
Hazrdous 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 regulated

UN number: None

HS code: 2841.90

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.