

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName CoO (Grain,Powder,Sheet,Tablet,Target, Code #:COO08PB)

Reference NO. COO02TAG-001

Creation Date 2026/04/03

Company Name : Kojundo Chemical Laboratory Co.,Ltd.
information
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Product Use For research purposes

Restriction of use Seek expert judgment when using the product for applications other than those recommended

2. Hazards identification

[GHS CLASSIFICATION]

PHYSICAL HAZARDS

Not Classification criteria.

HEALTH HAZARDS

Acute toxicity(oral) : Category3
Respiratory sensitizer : Category1
Skin sensitizer : Category1
Carcinogenicity : Category2
Specific target organ toxicity(single exposure) : Category1(Liver),Category2(Cardiovascular System)
Specific target organ toxicity(repeated exposure) : Category1(Blood,Respiratory tract,Thyroid)

ENVIRONMENTAL HAZARDS

Not Classification criteria.

[GHS LABEL ELEMENTS]

Pictogram



Signal Word

: Danger

Hazard Statement

: Toxic if swallowed(H301)
: May cause an allergic skin reaction(H317)
: May cause allergy or asthma symptoms or breathing difficulties if inhaled(H334)
: Suspected of causing cancer(H351)
: Causes damage to organs (Liver)(H370)
: May cause damage to organs (Cardiovascular System)(H371)
: Causes damage to organs (Blood,Respiratory tract,Thyroid)(H372)

Precautionary Statement

- Safety measures** : Obtain special instructions before use.(P201)
- : Do not handle until all safety precautions have been read and understood.(P202)
 - : Do not breathe dust/fume/gas/mist/vapours/spray.(P260)
 - : Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)
 - : Wash the competent authority to specify parts of the body to be washed after handling. thoroughly after handling.(P264)
 - : Do not eat, drink or smoke when using this product.(P270)
 - : Contaminated work clothing should not be allowed out of the workplace.(P272)
 - : Wear protective gloves/protective clothing/eye protection/face protection.(P280)
 - : In case of inadequate ventilation wear respiratory protection.(P284)

- First aid measures** : Get medical advice/attention if you feel unwell.(P314)
- : Specific treatment.(P321)
 - : Rinse mouth.(P330)
 - : IF SWALLOWED: Immediately call a POISON CENTER/doctor(P301+P310)
 - : IF ON SKIN: Wash with plenty of water(P302+P352)
 - : IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)
 - : IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311)
 - : IF exposed or concerned: Get medical advice/ attention.(P308+P313)
 - : If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)
 - : If experiencing respiratory symptoms: Call a POISON CENTER/doctor(P342+P311)
 - : Take off contaminated clothing and wash it before reuse.(P362+P364)

Storage : Store locked up.(P405)

Disposal : Dispose of contents/container in accordance with local/regional/national/international regulation.(P501)

3. Composition/information on ingredients

Classification of the substance or mixture : Substance
Chemical or generic name : Cobalt(II) oxide

Chemical name	Concentration(%)	CAS RN®
Cobalt oxide (CoO)	100.00	1307-96-6

4. First aid measures

- Inhalation** : Remove the exposed person immediately and provide fresh air. Get medical attention.
- Skin contact** : Promptly flush contaminated skin with soap or mild detergent and water. Contact Dermatologist if irritation continues.
- Eye contact** : Rinse cautiously with water for 15 minutes.Get medical attention from an ophthalmologist. When washing your eyes, hold your eyelids open with your fingers to allow water to reach every corner of your eyeballs and eyelids.

- Ingestion : Rinse mouth and throat with water. Get medical attention immediately.
- Necessary precautions for protection of person performing first aid measures : Rescue workers wear appropriate eye and skin protection equipment according to the situation.
- Special precautions for doctors : The doctor should carry out treatment that corresponds to the patient's symptoms.

5. Fire fighting measures

- Suitable extinguishing media : Use media appropriate for surrounding fire.
- Unsuitable extinguishing media : If there are overlapping items between "Suitable extinguishing media" and "Unsuitable extinguishing media", the use of that extinguishing media is prohibited.
- Special hazards arising from the substance or mixture : Danger to generate irritating, corrosive and toxic gases during fire.
: In the case of powders, there is a risk of dust explosions due to surrounding heat or ignition sources.
- Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory air and the protective clothing (heat resistance).

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Remove all ignition sources.
: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Indoor leakage: Ventilate as much as possible until the cleaning is completed.
Outdoor leakage: Work from the windward and evacuate the leeward crowd.
- Environmental precautions : Prevent flow out to river, etc. so as not to badly affect.
- Methods and material for containment and cleaning up : Shut off leak if without risk.
Avoid unnecessary contacts with spills.
: Gather up, pack in closed DOT-approved waste container as much as possible.
Carefully collect remnant and move to a safe place.
- Measures to prevent secondary disasters : Prevent leakage into sewer, rivers and etc., and take measures to prevent environmental pollution.

7. Handling and storage

Handling

- Technical measures : No information available
- Precautions for safe handling : No information available
- Avoid contact : Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.
Avoid prolonged or repeated exposure.
- Hygiene measures : Do not eat, drink or smoke when using this product.
: Wash hands thoroughly after handling.

Storage

- Safe storage conditions : Store the material in a sealed container.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.
: Store in a locked designated storage area.
: Store molded products such as targets in an unopened condition.

Safe container packaging materials : No information available

8. Exposure controls / Personal protection

Control parameters

Chemical name	ACGIH	OSHA
Cobalt oxide (CoO)	TWA:0.02 mg/m ³ (I) as Co	-

Equipment : Install the appropriate general ventilation equipment, local exhaust ventilation in the workplace.

Personal protection

Respiratory protection : Wear appropriate NIOSH/MSHA-approved respirator.
 Hand protection : Wear appropriate NIOSH/MSHA-approved impervious gloves.
 Eye and face protection : Wear appropriate NIOSH/MSHA-approved safety goggles.
 Skin and body protection : Wear appropriate NIOSH/MSHA-approved impervious protective wear, protective boots.

Special precautions : Regularly check your protective gear.
 : The notes for the table are as follows.
 D: Dust, M: Mist, F: Fumes, I: Inhalable particles, R: Respirable particles, IFV: Inhalable particles and vapors, T: Total dust, V: Vapors, C: Ceiling limit

9. Physical and chemical properties

Physical state : Solid
 Color : Dark brown
 Odour : No information available
 Melting point/Freezing point : 1795°C(±20 °C)
 Boiling point, initial boiling point and boiling range : No information available
 Flammability : Non-combustible
 Range of explosion (lower bound - upper bound) : No information available
 Flash point : No information available
 Autoignition temperature : No information available
 Decomposition temperature : No information available
 pH : No information available
 Kinematic viscosity : No information available
 Solubility : Insoluble in water(Soluble in acid.)
 Partition coefficient (n-octanol/water) : No information available
 Vapor pressure : No information available
 Density/Specific gravity : 6.44g/cm³
 Relative vapor density : No information available
 Particle characteristics : No information available
 Other : F.W. : 74.9 Oxidizing : None

10. Stability and reactivity

Reactivity : No information available
 Chemical stability : Stable in closed container under dry atmosphere (at room temperature).

Possibility of hazardous reactions	: No information available
Conditions to avoid	: Keep away from direct sunlight. Store in a cool, dark place.
Incompatible materials	: No information available
Hazardous decomposition products	: No information available

11. Toxicological information

Acute toxicity(oral) Cobalt oxide (CoO)	: Category3
Acute toxicity(dermal) No information available	
Acute toxicity(inhalation:gases) No information available	
Acute toxicity(inhalation:vapours) No information available	
Acute toxicity(inhalation:dusts and mists) No information available	
Skin corrosion/Skin irritation No information available	
Serious eye damage/Eye Irritation No information available	
Respiratory sensitizer Cobalt oxide (CoO)	: Category1
Skin sensitizer Cobalt oxide (CoO)	: Category1
Germ cell mutagenicity No information available	
Carcinogenicity Cobalt oxide (CoO)	: Category2
Toxic to reproduction/Effects on or via lactation No information available	
Specific target organ toxicity(single exposure) Cobalt oxide (CoO)	: Category1(Liver), Category2(Cardiovascular System)
Specific target organ toxicity(repeated exposure) Cobalt oxide (CoO)	: Category1(Blood,Respiratory tract,Thyroid)
Aspiration hazard No information available	

12. Ecological information

Hazard to the aquatic environment (acute) No information available	
Hazard to the aquatic environment (chronic) No information available	
Hazardous to the ozone layer No information available	
Ecotoxicity/Fish toxicity No information available	
Ecotoxicity/ Invertebrate toxicity No information available	

Ecotoxicity/ Algal toxicity
No information available

Persistence and degradability
No information available

Bioaccumulative potential
No information available

Mobility in soil
No information available

13. Disposal considerations

Remained waste : Discard in accordance with the standards of the local government and relevant legislation.

A polluted container and packing : When disposing of empty containers, empty containers are processed in accordance with the standards of the local government as well as the related laws and regulations and waste disposal method after contents are completely removed.

14. Transport information

UN number : 3288

Guideline Number : 151

Shipping name : TOXIC SOLID, INORGANIC, N.O.S.

UN Class : Class6 Toxic and infectious substances

Packing group : III

Subsidiary risk(s) : -

MARINE POLLUTANT : Not applicable

Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code : Not applicable

Special safety measures for transport or means of transport : Follow "7. Handling and storage"

: Check no leak of container, handle without overturning, falling and damaging,then reliably prevent from cargo shift.

Domestic regulations

Ground transport : Follow the transportation method specified in the Fire Service Law and the Industrial Safety and Health Law.

Marine transport : Follow the transportation method specified in the Ship Safety Law.

Air transport : Follow the transportation method specified in the Aviation Law.

15. Regulatory information

Follow relevant national and local regulations.

16. Other information

This " Safety Data Sheet(SDS)" is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

Since not all materials and literature have been investigated, information may be omitted, and changes may occur in the content due to the discovery of new findings or corrections of previous theories.

The information contained herein is based on information in our possession, but we do not guarantee the completeness of the information.

It is subject to revision based on changes in laws and regulations and new findings.

When using this information for important decisions, we recommend that you carefully review the source of the information or verify it through testing.

Values of ingredients, content, physicochemical properties, etc., are not quality assurance values.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used.

The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

Special Notes (displayed only if applicable)