

Safety Data Sheet



1: Identification

1.1: Product Identifier

Product Name: CoI2

Product Number(s): 1COI2-0003F

CAS Number: 15238-00-3

SDS Document Number: 000067

1.2: Recommended Uses and Restrictions

Recommended Uses

Manufacture of substances

Restrictions

Not for food or drug use.

1.3: Supplier Contact Information

APL Engineered Materials, Inc.

2401 N. Willow Rd.

Urbana, IL 61802

Phone: 217-367-1340

Fax: 217-367-9084

1.4: Emergency Phone Number

International: +01-813-248-0585

United States: 800-255-3924

2: Hazards Identification

2.1: Classifications

Acute Toxicity, Dermal - Category 4

Acute Toxicity, Inhalation - Category 4

Acute Toxicity, Oral - Category 4

Eye Damage/Irritation - Category 2A

Skin Corrosion/Irritation - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 3

2.2: GHS Label Elements

Pictograms



Signal Word: Warning

Hazard Statements

- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.

Precautionary Statements

- P261: Avoid breathing dust.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves, clothing, and eyewear.
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P321: Specific treatment. Call a physician or poison control center. call doctor or poison control center
- P330: Rinse mouth.
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container to licensed disposal facility.

2.3: Hazards Not Otherwise Classified or Not Covered by GHS

None.

2.4: Amount(s) of substances with unknown toxicity

None

3: Composition/Information on Ingredients

3.1: .Ingredient	.Weight%	.Formula	.CAS Number	.Mol Wt	.EC Number
CoI2	100	CoI2	15238-00-3	312.74	239-283-2

3.2: Other Hazardous components

none

3.3: Trade Secret Disclaimer

none

3.4: Synonyms

- Cobalt (II) Iodide
- Cobalt diiodide

4: First Aid Measures

4.1: First Aid

General

Remove person from area of exposure and remove any contaminated clothing

Consult with physician and provide this Safety Data Sheet

In contact with eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Seek medical attention if irritation develops or persists

In contact with skin

Wash thoroughly with soap and plenty of water. Remove all contaminated clothing for proper laundering. Seek medical attention if irritation develops or persists.

If swallowed

If conscious and alert, rinse mouth and drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical aid.

If inhaled

Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

4.2: Most important symptoms and effects; acute and delayed

Harmful if swallowed.

May cause respiratory irritation.

Causes serious eye irritation.

Harmful if in contact with skin

Causes skin irritation

Harmful if inhaled

4.3: Indication of any immediate medical attention and special treatment needed

If in Eyes: Immediately call a POISON CENTER or doctor/ physician.

If swallowed: Immediately call a POISON CENTER or doctor/ physician.

If inhaled : Immediately call a POISON CENTER or doctor/ physician.

5: Fire Fighting Measures

5.1: Fire extinguishing media

dry chemical

carbon dioxide

water or alcohol-resistant foam

5.2: Specific hazards arising from the substance or mixture

cobalt oxides

hydroiodic acid and hydroiodic acid fumes

5.3: Special protective equipment and precautions for firefighters.

Wear self contained breathing apparatus for fire fighting if necessary

6: Accidental Release Measures

6.1: Personal precautions, protective equipment, and emergency procedures.

For personal protection see section 8.

Ensure adequate ventilation.

- Avoid breathing dust.
- Avoid dust formation.
- Use personal protective equipment.
- Evacuate personnel to safe areas.

6.2: Methods and materials for containment and cleaning up.

- Collect with an intrinsically safe vacuum cleaner or by wet brushing.
- Sweep up and shovel.
- Keep in suitable, closed containers for disposal.

6.3: Environmental precautions

- Do not let product enter drains.

6.4: Disposal

- Dispose of in accordance with local regulations.
- See section 13.

7: Handling and Storage

7.1: Precautions for safe handling

- Avoid contact with skin and eyes.
- Avoid formation of dust and aerosols.
- See precautionary statements in section 2.2.
- Provide appropriate exhaust ventilation at places where dust is formed.

7.2: Conditions for safe storage

- Keep container tightly closed.
- Store under inert gas.
- Store away from moisture.
- Store in a dry and well-ventilated place.
- See precautionary statements in section 2.2.

7.3: Incompatibilities

- strong oxidizing agents

8: Exposure Controls/Personal Protection

8.1: Control parameters

- OSHA permissible exposure limit (PEL)
 - not listed
- ACGIH threshold limit value (TLV)
 - not listed
- NIOSH recommended exposure limit (REL)
 - not listed

8.2: Engineering controls

- Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower
- Use adequate ventilation to keep airborne concentrations low

8.3: Personal protective equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin

Wear appropriate, chemical-resistant protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure

Respirator

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.
Always use a NIOSH or European Standard EN 149 approved respirator when necessary

9: Physical and Chemical Properties

9.a: Appearance

State: Solid

Form: powder or spheres

Color: dark green

9.b: Odor: odorless

9.c: Odor threshold: no data available

9.d: pH: no data available

9.e: Melting point / freezing point: > 515 °C (> 959 °F)

9.f: Initial boiling point and range: no data available

9.g: Flashpoint: no data available

9.h: Evaporation rate: no data available

9.i: Flammability (solid, gas): no data available

9.j: Upper/lower flammability or explosive limits: no data available

9.k: Vapor pressure: no data available

9.l: Vapor density: no data available

9.m: Relative density: 5.45 g/mL at 25 °C (77 °F)

9.n: Water Solubility: Soluble

9.o: Partition coefficient: n-octanol/water: no data available

9.p: Auto-ignition temperature: no data available

9.q: Decomposition temperature: no data available

9.r: Viscosity: no data available

10: Stability and Reactivity

10.1: Reactivity

no data available

10.2: Chemical stability

Stable under recommended storage conditions.

10.3: Possibility of hazardous reactions

no data available

10.4: Conditions to avoid

exposure to water

exposure to light (may affect product quality)

10.5: Incompatible materials

See section 7.3.

10.6: Hazardous decomposition products

In the event of fire: see section 5.2

Other decomposition products - no data available

11: Toxicological Information

11.1: Toxicity data

Acute toxicity - Oral

no data available

Acute toxicity - Dermal

no data available

Acute toxicity - Inhalation

No data available.

Skin corrosion/irritation

Causes skin irritation.

Eye damage/irritation

Causes severe eye irritation.

Respiratory irritation

May cause respiratory irritation.

Germ cell mutagenicity

no data available

Reproductive toxicity

no data available

Specific organ toxicity - single exposure

May cause respiratory irritation.

Specific organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

ACGIH carcinogenicity

The ACGIH has identified a component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

IARC carcinogenicity

Group 2B: Possibly carcinogenic to humans.

NTP carcinogenicity

The NTP has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

OSHA carcinogenicity

OSHA has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

11.2: Routes of exposure

See section 2.2

oral

eyes

skin

11.3: Symptoms of exposure

See section 4.2

11.4: Delayed and immediate effects of exposure

Cobalt is a suspected carcinogen of the connective tissue and lungs. It is a suspected tumorigen and neoplastigen. Ingestion may cause burning in the mouth, esophagus and stomach. Inhalation of dusts may cause irritation of the respiratory tract, labor

Prolonged or repeated exposure may cause allergic skin and /or respiratory reactions in certain sensitive individuals.

12: Ecological Information

12.1: Ecotoxicity

Toxicity to fish

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

Toxicity to algae/bacteria

No data available

12.2: Persistence and degradability

no data available

12.3: Bioaccumulative potential

no data available

12.4: Mobility in soil

no data available

12.5: Other effects

no data available

13: Disposal Considerations

13.1: Waste treatment methods

No data available

13.2: Safe handling

See section 7.1 .

13.3: Product disposal

Contact a licensed professional waste disposal service to dispose of this material.

13.4: Packaging disposal

Dispose of as unused product.

14: Transport Information

14.1: DOT(US)

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

14.2: IMDG

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

14.3: IATA

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

14.4: Special Shipping Precautions

None

15: Regulatory Information

15.1: TSCA inventory

This material is listed on the TSCA inventory.

15.2: SARA 302 components

This material is not subject to the reporting requirements of SARA Title III, Section 302.

15.3: SARA 313 components

This material is subject to the reporting requirements of SARA Title III, Section 313.

15.4: SARA 313/312 hazards

Chronic health hazard.

Acute health hazard.

15.5: Other information

Pennsylvania Right To Know Components -This product contains materials listed on the Pennsylvania Right to Know list

California Prop. 65 Components - This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components -This product contains materials listed on the New Jersey Right to Know list

Massachusetts Right To Know Components - This product contains materials listed on the Massachusetts Right to Know list

16: Additional Information

16.1: NFPA

Health: 2

Fire: 0

Reactivity: 0

Special:

16.2: HMIS

Health: 2

Chronic: *

Flammability: 0

Physical Hazard: 0

16.3: Disclaimers

For industrial use only. Not for drug, household or other uses

The information herein is believed to be accurate and reliable as of the date compiled. However, APL Engineered Materials, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

16.4: References

Information contained on this SDS sheet was obtained from some or all of the following sources: American Conference of Governmental Industrial Hygienists (ACGIH), TLVs and BEIs; National Institute for Occupational Safety and Health (NIOSH), Pocket Guide to Chemical Hazards; European Chemicals Agency, <http://echa.europa.eu/>; The National Institute of Health, U.S National Library of Medicine, TOXNET, Toxicology Data Network; and the Registry of Toxic Effects of Chemical Substances (RTECS) database.

16.5: Version

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