

# SDS

## SAFETY DATA SHEET

Oakwood Products, Inc  
730 Columbia HWY N  
Estill, SC 29918  
[www.oakwoodchemical.com](http://www.oakwoodchemical.com)

**Phone Numbers:**

|                          |              |
|--------------------------|--------------|
| Product Information      | 803-739-8800 |
| Transportation Emergency | 800-451-8346 |
| Outside the USA          | 760-602-8700 |

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**MATERIAL IDENTIFICATION**

NAME: **Cobalt(II) bromide**  
CAS#: [7789-43-7]  
CAT#: 095389  
For R&D use only.

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**HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity, oral (Category 4)  
Skin corrosion/irritation (Category 2)  
Sensitisation, Skin (Category 1)  
Serious eye damage/eye irritation (Category 2A)  
Sensitisation, respiratory (Category 1)  
Germ cell mutagenicity (Category 2)  
Carcinogenicity (Category 1B)  
Hazardous to the aquatic environment, long-term hazard (Category 1)

**GHS Label elements, including precautionary statements****Pictograms****Signal Word****Danger****Hazard Statement(s)**

|      |   |
|------|---|
| H302 | Harmful if swallowed  |
| H315 | Causes skin irritation  |
| H317 | May cause an allergic skin reaction                                       |
| H319 | Causes serious eye irritation   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H341 | Suspected of causing genetic defects                                      |
| H350 | May cause cancer  |
| H410 | Very toxic to aquatic life with long lasting effects                      |

**Precautionary Statement(s)**

|                    |  |
|--------------------|--|
| P261               | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P273               | Avoid release to the environment.  |
| P281               | Use personal protective equipment as required.   |
| P301 + P312        | IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.   |
| P302 + P352        | IF ON SKIN: wash with plenty of soap and water.  |
| P304 + P341        | IF INHALED: If breathing is difficult, 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. |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.   |
| P333 + P313        | IF SKIN irritation or rash occurs: Get medical advice/attention.   |
| P391               | Collect spillage. Hazardous to the aquatic environment   |

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**COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : CoBr<sub>2</sub>  
Molecular Weight : 218.75

| CAS       | Description        | Concentration |
|-----------|--------------------|---------------|
| 7789-43-7 | Cobalt(II) bromide | 98%           |

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**FIRST AID MEASURES****In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**In case of skin contact**

Wash thoroughly with soap and plenty of water. Seek medical attention.

**If inhaled**

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**If swallowed**

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

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**FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards/decomposition of product**

emits toxic fumes under fire conditions.

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## ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

### Environmental precautions

Prevent further leakage if safe to do so.

### Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

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## HANDLING AND STORAGE

### Precautions for safe handling

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

### Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

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## EXPOSURE CONTROL/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Eye/face protection

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Hand/skin protection

Avoid all direct contact with product.  
Wear chemical-resistant gloves.  
Wear protective clothing and boots.  
After contact with skin, wash immediately.

#### Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

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## PHYSICAL AND CHEMICAL PROPERTIES

|  |                   |
|--|-------------------|
| Appearance                                   | Green powder      |
| Odour  | no data available |
| Odour Threshold                              | no data available |
| Melting point/Freezing Point                 | 678°C             |
| Boiling Point                                | no data available |
| Flash Point                                  | no data available |
| Evaporation Rate                             | no data available |
| Flammability (solid, gas)                    | no data available |
| Upper/Lower Flammability or Explosive limits | no data available |

|  |                   |
|--|-------------------|
| Vapour pressure                        | no data available |
| Relative Density                       | 4.909             |
| Solubility(ies)                        | no data available |
| Partition coefficient: n-octanol/water | no data available |
| Auto-ignition temperature              | no data available |
| Decomposition temperature              | no data available |
| Viscosity                              | no data available |
| Refractive Index                       | no data available |

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## STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

Strong oxidizing agents and alkali metals.

### Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide, and hydrogen bromide.

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## TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

Rat - 406 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Diarrhoea Nutritional and Gross  
Metabolic:Weight loss or decreased weight gain.

### Skin corrosion/irritation

Causes skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation

### Respiratory or skin sensitization

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

### Germ cell mutagenicity

Suspected of causing genetic defects

### Carcinogenicity

May cause cancer

### Reproductive toxicity

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

**Exposure Routes**

Harmful to skin, eyes, and respiratory system.

May be toxic if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

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**ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

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**DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

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**TRANSPORT INFORMATION**

***DOT***

Environmentally hazardous substance, solid, n.o.s.

9

UN3077 III

Reportable Quantity (RQ): 1000 lbs

***IMDG***

Environmentally hazardous substance, solid, n.o.s.

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UN3077 III

EMS-No: F-A, S-F

Marine Pollutant: No

**IATA**

Environmentally hazardous substance, solid, n.o.s.

9

UN3077 III

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**REGULATORY INFORMATION**

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

Cobalt(II) bromide

**CAS**

7789-43-7

**New Jersey Right to Know Components**

This product contains a chemical on the New Jersey Right to Know Components List.

Cobalt(II) bromide

**CAS**

7789-43-7

**California Prop. 65 Components**

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

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**OTHER INFORMATION**

Version : 1.2

Revision Date : 8/4/2017

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.