Safety Data Sheet

1. Identification of the substance

1.1. Product identifiers: Product Name: Cobalt(II) bromide

Synonyms:

Catalog number: QE-5680 CAS Number: 7789-43-7

1.2. Identified use: Laboratory chemicals, for scientific research and development only.

1.3. Supplier: Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-

635-8950. Email: sales@combi-blocks.com.

1.4. Emergency Contact: During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. Af-

ter business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (interna-

tional).

2. Hazards identification

2.1. Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity,oral (Category 4), H302 Acute toxicity,dermal (Category 4), H312 Acute toxicity,inhalation (Category 4), H332 Skin corrosion/irritation (Category 2), H315 Sensitisation, Skin (Category 1), H317

Serious eye damage/eye irritation (Category 2), H319

Sensitisation, respiratory (Category 1), H334

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),

H335

Carcinogenicit (Category 1A, 1B), H350

2.2. GHS Label elements, including precautionary statements:

Pictograms

Signal word Danger

Hazard statement(s).

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation

H317 May cause an allergic skin reactionH319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

H350 May cause cancer

Precautionary statement(s).

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P285 In case of inadequate ventilation wear respiratory protection.

P301+P312+P330 If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse

mouth.

P302+P352+P312	If on skin: Wash with soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340+P312	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
	P304+P340+P312 P305+P351+P338 P308+P313 P332+P313 P333+P313 P337+P313 P342+P311 P362 P363 P403+P233 P405

3. Composition/information on ingredients.

3.1. Substances

COMPONENT	CLASSIFICATION	CONCENTRATION
Cobalt(II) bromide	H302+H312+H332, H315, H317,	≤ 100
	H319, H334, H335, H350	

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

In case of skin contact: Wash with soap and water. Call a POISON CENTER or doctor/physician if you feel

unwell.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do – continue rinsing.

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

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

No data.

5. Fire fighting measures

5.1. Extinguishing media: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

5.2. Special hazards arising from the substance or mixture: Carbon monoxide, hydrogen bromide.

5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information: No data available.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and materials for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections:

Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

- 7.1. Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- 7.2. Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 7.3. Specific end use(s): Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

8.1. Control parameters:

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2. Exposure controls:

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation

location. Ensure adequate ventilation, especially in confined areas. Use only under a

chemical fume hood.

Personal protective equipment:

Eye/face protection: 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 protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.,

The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Stan-

dard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Solid

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

9. Physical and chemical properties

A nnogrance:

(a)

9.1. Information on basic physical and chemical properties

(a)	Appearance:	Solid
(b)	Odour:	No data
(c)	Odour Threshold:	No data
(d)	pH:	No data
(e)	Melting point/freezing point:	No date.
(f)	Initial boiling point and boiling range:	No data
(g)	Flash point:	No data
(h)	Evaporatoin rate:	No data
(i)	Flammability (solid, gas):	No data
(j)	Upper/lower flammability or explosive limits:	No data
(k)	Vapour pressure:	No data
(1)	Vapour density:	No data
(m)	Relative density:	No data
(n)	Water solubility:	No data
(o)	Partition coefficient: n-octanol/water:	No data
(p)	Auto-ignition:	No data
(q)	Decomposition temperature:	No data
(r)	Viscosity:	No data
(s)	Explosive properties:	No data
(t)	Oxidizing properties:	No data

9.2. Other safety information:

Formula Br₂Co

Molecular weight 218.7 CAS Number 7789-43-7

10. Stability and reactivity

10.1. Reactivity No data

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions No data

10.4. Conditions to avoid

10.5. Incompatible material Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously com-

bustible substances, substances which are dangerous when wet, oxidizing substances, or-

ganic peroxides, poisons, radioactive materials.

10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon monoxide, hydrogen bromide.

Other decomposition products: No data
In the event of fire: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. .

Skin irritation/corrosion: Harmful in contact with skin. Harmful if inhaled.

Eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause respiratory irritation.

Germ cell mutagenicity: No data available.
Carcinogenicity: May cause cancer.
Reproductive toxicity: No data available.

Specific target organ system toxicity - single exposure: No data available. Specific target organ system toxicity - repeated exposure: No data available.

Aspiration hazard: No data available.

Additional information: To the best of our knowledge, the chemical, physical and toxicological proper-

ties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity 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. Results of PBT and vPvB assessment No data available.
12.6. Other adverse effects No data available.

13. Disposal Considerations

13.1. Waste treatment methods

Product Arrange disposal as special waste, by licensed disposal company, in consultation with

local waste disposal authority, in accordance with national and regional regulations.

Contaminated packaging Dispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number: UN3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT INCLUD-

ING WASTE) (Cobalt(II) bromide)

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.