

Cobalt(II) Bromide Hydrate Pricing >				
Linear Formula		CoBr ₂ • xH ₂ O		
Pubchem CID		16212115		
MDL Number		MFCD00150208		
EC No.		232-166-7		
IUPAC Name		dibromocobalt; hydrate		
Beilstein/Reaxys No.		N/A		
SMILES		Br[Co]Br.O		
Inchl Identifier		InChI=1S/2BrH.Co.H2O/h2*1H;;1H2/q;;+2;/p-2		
Inchl Key		MOTZAWYGLXXRSO-UHFFFAOYSA-L		
Signal Word	Warnin	ng		
Hazard Statements	H302-H315-H319-H335-H410-H351			
Hazard Codes	Xn, N			
Precautionary Statements	P261-P273-P280-P281-P301+P312-P302+P352-P305+P351+P338			
Flash Point	N/A			
Risk Codes	N/A			
Safety Statements	N/A			
RTECS Number	N/A			
Transport Information	UN 3077 9/PG III			
WGK Germany	3			
GHS Pictograms	GHS07 Exclamation Point CHS08 Health Hazard GHS09 Environment			

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SAFETY DATA SHEET

Date Accessed: 04/27/2024 **Date Revised:** 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #85017-77-2

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Acute oral toxicity Category 4 Acute dermal toxicity Category 4 Acute Inhalation Toxicity - Dusts and Mists Category 4 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system.

Label Elements Signal Word: Warning







Hazard Statements

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H410 - Very toxic to aquatic life with long lasting effects

H302 - Harmful if swallowed

Precautionary Statements

P281 - Use personal protective equipment as required

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P273 - Avoid release to the environment

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

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component / CAS-No / Weight % Cobalt(II) bromide hydrate / 85017-77-2 / 100

SECTION 4. FIRST AID MEASURES

Eve Contact

Rinse immediately with plenty of water, also under the evelids, for at least 15 minutes. Get medical attention. Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation

Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

Ingestion

Do NOT induce vomiting. Get medical attention. Most important symptoms and effects No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available **Explosion Limits**

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical Non-combustible. Do not allow run-off from firefighting to enter drains or water courses. Hazardous **Combustion Products**

Hydrogen halides.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

NFPA

Health

Flammability

Instability

Physical hazards

N/A

SECTION 6. ACCIDENTAL RELEASE **MEASURES**

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities

should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or pro

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation

location.

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 and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29

CFR 1910.134 or European Standard

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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Reddish violet

Odor No information available

Odor Threshold No information available

pH No information available

Melting Point/Range No data available

Boiling Point/Range No information available

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility No information available

Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula Br2 Co. x H2 O

Molecular Weight 218.75

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information

available

Stability Stable. Hygroscopic.

Conditions to Avoid Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Metals

Hazardous Decomposition Products Hydrogen halides Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

Dermal LD50 Category 4. ATE = 1000 - 2000 mg/kg.

Mist LC50 Category 4. ATE = 1 - 5 mg/l. Component Information

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic

effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available. STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and

delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT

UN-No UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. Hazard Class 9 Packing Group III

TDG

UN-No UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. Hazard Class 9

Packing Group III

IATA

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY

HAZARDOUS SUBSTANCE, SOLID, N.O.S.* Hazard

Class 9

Packing Group III

IMDG/IMO

UN-No UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. Hazard Class 9

Packing Group III

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not

contain any Proposition 65 chemicals
U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N
U.S. Department of Homeland
Security
This product does not contain any DHS chemicals.
Other International Regulations
Mexico - Grade No information available.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.