

Material Safety Data Sheet Cobalt(II) bromide hydrate

Section 1 - Chemical Product and Company Identification

MSDS Name: Cobalt(II) bromide hydrate Catalog Numbers: 31854-0000, 31854-1000

Synonyms:

Company Identification: Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Company Identification: (USA) Acros Organics

One Reagent Lane Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS# 85017-77-2 Cobalt(II) bromide hydrate unlisted

Hazard Symbols: XN N





Risk Phrases: 22 36/37/38 40 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin. **Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. **Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.

Chronic:

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not

breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical aid.

Notes to

Treat symptomatically and supportively.

Physician:

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA/NIOSH (approved or equivalent), and full protective

gear. Substance is noncombustible.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to

extinguish surrounding fire.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal

container. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

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.

Exposure Limits

CAS# 85017-77-2:

United Kingdom, WEL - TWA: (cobalt compounds): 0.1 mg/m3 TWA (as Co) United Kingdom, WEL - STEL: (cobalt compounds): 0.3 mg/m3 STEL (as Co)

Japan: (cobalt compounds): 0.05 mg/m3 OEL (as Co)

Malaysia: (cobalt, inorganic compounds): 0.02 mg/m3 TWA (as

Co)

Russia: (cobalt, inorganic compounds): 0.01 mg/m3 TWA

(aerosol)

Spain: (cobalt, inorganic compounds): 0.02 mg/m3 VLA-ED

(as Co)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure. **Respirators:** 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.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: violet

Odor: Not available **pH:** Not available

Vapor Pressure: Not available

Viscosity: Not available **Boiling Point:** Not available

Freezing/Melting Point: Not available Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available Explosion Limits: Upper: Not available Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density:

Molecular Formula: Br2Co.xH2O Molecular Weight: 218.75

Section 10 - Stability and Reactivity

Chemical Stability: Stable. Hygroscopic: absorbs moisture or water

from the air.

Conditions to Avoid: Incompatible materials, exposure to moist air or

water.

Incompatibilities with Other

Materials .

Products

Strong oxidizing agents, oxidizing agents, alkali

metals.

Hazardous Decomposition Carbon monoxide, carbon dioxide, hydrogen

bromide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 85017-77-2: None listed

LD50/LC50: RTECS: Not available. Other: Oral, rat: LD50=406 mg/kg **Carcinogenicity:** Cobalt(II) bromide hydrate - IARC: Group 2B carcinogen (**

undefined **).

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY
Name:	HAZARDOUS	HAZARDOUS	HAZARDOUS
	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	SUBSTANCE, SOLID,
	N.O.S.*	N.O.S.	N.O.S.
Hazard	9	9	9
Class:			
UN	3077	3077	3077
Number:			
Packing	III	III	III
Group:			

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 85017-77-2: Not available

Canada

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US Federal

CAS# 85017-77-2 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information

MSDS Creation Date: 6/25/1997 **Revision #1 Date** 10/03/2006

Revisions were made in Sections: 2, 3, 5, 6, 8, 9, 10, 12, 14

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