



Qualikems Lifesciences Pvt. Ltd

(Formerly known as Qualikems fine chem Pvt Ltd)

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Material Safety Data Sheet

Cobalt (II) acetate tetrahydrate

Section 1 - Chemical Product and Company Identification

MSDS Name: Cobalt (II) acetate tetrahydrate

Synonyms: Acetic acid cobalt(2+) salt; Cobaltous acetate tetrahydrate.

Company Identification: **QUALIKEMS FINE CHEMICALS PVT. LTD.**

15-B/4, N.E.A.,OLD RAJINDER NAGAR , NEW DELHI , INDIA

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
6147-53-1	Cobalt (II) acetate, tetrahydrate	100	unlisted

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: red solid.

Warning! Possible cancer hazard. May cause cancer based on animal data. Causes eye irritation. May cause allergic respiratory and skin reaction. May be harmful if swallowed. May cause skin and respiratory tract irritation. May cause lung damage. Hygroscopic (absorbs moisture from the air). Very toxic to aquatic organisms.

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. May cause allergic reaction.

Inhalation: Causes delayed lung injury. May cause respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract. May cause asthma and shortness of breath.

Chronic: Cobalt compounds may cause cancer based upon animal studies.

Section 4 - First Aid Measures

Eyes: Immediately 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. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

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 general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Cobalt (II) acetate, tetrahydrate	none listed	none listed	none listed

OSHA Vacated PELs: Cobalt (II) acetate, tetrahydrate: No OSHA Vacated PELs are listed for this chemical.

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 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: Solid

Appearance: pink - red

Odor: acetic odor

pH: 6.8 (0.2M aq. soln)

Vapor Pressure: Not available.

Vapor Density: Not applicable.

Evaporation Rate: Not available.

Viscosity: Not applicable.

Boiling Point: Not available.

Freezing/Melting Point: 140 deg C

Decomposition Temperature: Not available.

Solubility: Soluble in water.

Specific Gravity/Density: 380g/L (20°C)

Molecular Formula: C₄H₆CoO₄·4H₂O

Molecular Weight: 249.08

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, dust generation, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizers. .

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of cobalt.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 6147-53-1: AG3325000

LD50/LC50:

CAS# 6147-53-1:

Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Moderate;

Oral, rat: LD50 = 708 mg/kg;<BR.

Carcinogenicity:

CAS# 6147-53-1:

- **ACGIH:** Not listed.
- **California:** Not listed.
- **NTP:** Not listed.
- **IARC:** Group 2B carcinogen (listed as Soluble cobalt (II) salts).

Epidemiology: No information found.

Teratogenicity: Oncogenic transformation, hamster embryo: 200 umol/L

Reproductive Effects: No information found.

Mutagenicity: No information found.

Neurotoxicity: No information found.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	IATA	
Shipping Name:	Not Regulated	
Hazard Class:		
UN Number:		
Packing Group:		
Additional Info:		

Section 15 - Regulatory Information

Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitization by inhalation and skin contact.

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

Safety Phrases:

- S 22 Do not breathe dust.
- S 24 Avoid contact with skin.
- S 29 Do not empty into drains.
- S 36/37 Wear suitable protective clothing and gloves.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Section 16 - Additional Information

MSDS Creation Date: 12/12/1997

Revision #3 Date: 05/10/2005

Revision #4 Date: 04/10/2010

Revision #5 Date: 03/10/2015

Revision #6 Date: 02/10/2020

Revision #7 Date: 01/10/2025

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