



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cobalt (III) Acetylacetonate**  
PRODUCT NUMBER: 1489-7  
CAS NUMBER: 21679-46-9  
SYNONYMS: Cobalt(III) acetylacetonate, Co(acac)<sub>3</sub>, Cobalt(III) 2,4-pentanedionate, Cobaltic acetylacetonate, Tris(2,4-pentanedionato)cobalt

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Precautionary Phrases

P261	Avoid breathing dust.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** May cause irritation to eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** May be irritating to nasal cavity and respiratory tract.

**INGESTION:** No specific information is available.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{Co}(\text{C}_5\text{H}_7\text{O}_2)_3$

Molecular Weight: 365.26

CHEMICAL NAME	CAS#	%
Cobalt (III) Acetylacetonate	21679-46-9	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** None

**AUTO IGNITION TEMPERATURE:** None

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** Water, foam, carbon dioxide, or dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS:** Prevent further leakage and do not let enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Avoiding generation of dust, sweep up material and dispose of properly. Clean affected area.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with skin and eyes. Be sure to use appropriate exhaust. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store material in a tightly sealed container, in a dry area.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:**

Component	Exposure Limits	Basis	Entity
Cobalt (III) Acetylacetonate	0.02 mg/m <sup>3</sup>	TWA	ACGIH

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Green powder

**MOLECULAR WEIGHT:** 365.26

**MELTING POINT:** 410°-415° C

**BOILING POINT:** No data available

**SPECIFIC GRAVITY:** No data available

**VAPOR PRESSURE:** No data available

**SOLUBILITY IN WATER:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID:** No data available

**INCOMPATIBILITY:** No data available

**DECOMPOSITION PRODUCTS:** Carbon oxides

## SECTION 11 TOXICOLOGICAL DATA

**RTECS DATA:** No information available in the RTECS files.

**CARCINOGENIC EFFECTS:** No data

**MUTAGENIC EFFECTS:** No data

**TETRATOGENIC EFFECTS:** No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**SARA (TITLE 313):** Cobalt (III) Acetylacetonate

**SARA 311/312:** Acute Health Hazard. Chronic Health Hazard.

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**MASSACHUSETTS RIGHT TO KNOW:** No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW:** Cobalt (III) Acetylacetonate

**VERMONT RIGHT TO KNOW:** Cobalt (III) Acetylacetonate

**WASHINGTON RIGHT TO KNOW:** Cobalt (III) Acetylacetonate

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE PREPARED:** 01/26  
**SDS DEPT.**