

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME ON LABEL: **COBALT III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE - AKC240**  
 CHEMICAL NAME: COBALT III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE  
 SYNONYMS: COBALTIC TMHD  
 CHEMICAL FAMILY: COBALT COMPOUND  
 FORMULA: C<sub>33</sub>H<sub>57</sub>O<sub>6</sub>Co  
 HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV	OSHA PEL
COBALT III 2,2,6,6-TETRAMETHYLHEPTANEDIONATE	14877-41-9	>95	0.05mg(Co)/m <sup>3</sup>	0.1mg(Co)/m <sup>3</sup>

**PHYSICAL DATA**

Boiling Point: 120°C @ 0.5mm sub	Melting Point: (254-256°C)- dec
Specific Gravity: >1	Vapor Pressure: not determined
Vapor Density: NA	Solubility in water: insoluble
% volatiles: <2	Evaporation rate: NA
Molecular Weight: 608.74	Other: NA
Appearance & Color: Green powder.	

**FIRE & EXPLOSION DATA**

Flash Point, COC: >200°C (>392°F) Autoignition Temp.: not determined  
 Flammability Limits- not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.  
 Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.  
 Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

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## ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Hypersensitivity of the skin to certain cobalt compounds has been demonstrated. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract. Cobalt compounds are suspect carcinogens of connective tissue and lungs.

Oral Toxicity : not determined  
Chronic Toxicity: not determined

### SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers.

Hazardous decomposition products: Organic acid vapors and cobalt oxide fumes.

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## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds PEL, NIOSH approved dust and mist respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

Keep workplace clean, prevent product dusting.

## OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI  
DOT HAZARD CLASS: NOT REGULATED  
DOT LABEL: NOT REQUIRED  
DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs

AKC240 ISSUE DATE: 11/16/09

SUPERSEDES: none

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