

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **CADMIUM 2,4-PENTANEDIONATE - AKC160**

CHEMICAL NAME: CADMIUM 2,4- PENTANEDIONATE

SYNONYMS: CADMIUM ACETYLACETONATE

CHEMICAL FAMILY: CADMIUM COMPOUND

FORMULA: C₁₀H₁₄O₄Ca

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
CADMIUM 2,4-PENTANEDIONATE, dihydrate	14689-45-3	>95		not established
OSHA PEL for cadmium compounds: TWA 0.2 mg(Cd)m ³				

PHYSICAL DATA

Boiling Point: N/A

Specific Gravity: NA

Vapor Density: NA

% volatiles: <1

Molecular Weight: 310.64

Appearance & Color: Off-White to pale yellow powder

Melting Point: >250°C-decomposes

Vapor Pressure: not determined

Solubility in water: insoluble

Evaporation rate: NA

Other: N/A

FIRE & EXPLOSION DATA

Flash Point, COC: NA

Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

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.

-1-(AKC160)

ENVIRONMENTAL INFORMATION

Spill response: Release to groundwater can endanger aquatic species. 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. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of cadmium compounds has been found to cause human lung cancer. No specific testing has been conducted with cadmium pentanedionate.

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: Material decomposes slowly in contact with air by reaction with water and carbon dioxide.

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

-2-(AKC160)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, 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.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CADMIUM COMPOUNDS

DOT HAZARD CLASS: 6.1

DOT LABEL: Keep away from food

DOT ID No: UN 2570

PG: III

Prepared by safety and environmental affairs

ISSUE DATE AKC160: 9/26/02

SUPERSEDES: 7/31/01

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