

GELEST, INC.

11 East Steel Rd. Morrisville, PA 19067
Phone: (215) 547-1015

MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **CADMIUM FORMATE - CXCD045**
CHEMICAL NAME: CADMIUM FORMATE
SYNONYMS: CADMIUM DIFORMATE
CHEMICAL FAMILY: CADMIUM COMPOUND
FORMULA: $C_2H_2O_4Cd$

HMIS CODES HEALTH: 4 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
CADMIUM FORMATE	4464-23-7	>95	0.01mg(Cd)/m ³	0.2mg(Cd)/m ³

PHYSICAL DATA

Boiling Point: NA
Specific Gravity: >2
Vapor Density: NA
% volatiles: <2
Molecular Weight: 202.45
Appearance & Color: White powder

Melting Point: (>325°C)-decomp.
Vapor Pressure: not determined
Solubility in water: soluble
Evaporation rate: NA
Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: >200°C (>392°F) 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-(CXCD045)

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 cadmium 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.

Oral Toxicity -rat, LD50: 162mg/kg

Chronic Toxicity: Positive carcinogenicity and mutagenicity data have been reported for this compound.

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 cadmium oxide fumes.

-2-(CXCD045)

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.

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: TOXIC

DOT ID No: 2570

PG: III

Prepared by safety and environmental affairs

ISSUE DATE CXCD045: 10/20/10

SUPERSEDES: none

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