

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **SAMARIUM ACETATE, hydrate - CXSM010**

CHEMICAL NAME: SAMARIUM ACETATE, hydrate

SYNONYMS: ACETIC ACID, SAMARIUM(3+) SALT

CHEMICAL FAMILY: SAMARIUM COMPOUND

FORMULA: C<sub>6</sub>H<sub>9</sub>O<sub>6</sub>Sm.xH<sub>2</sub>O

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
SAMARIUM ACETATE, hydrate	100587-91-5	>95	not established (TLV, ACGIH SAMARIUM COMPOUNDS: 1mg/m <sup>3</sup> )

**PHYSICAL DATA**

Boiling Point: NA	Melting Point: not determined
Specific Gravity: 1.94	Vapor Pressure, 25°: <1mm
Vapor Density: NA	Solubility in water: soluble
% volatiles: <3	Evaporation rate: NA
Molecular Weight: 327.53)	Other: NA
Appearance & Color: White to off-white crystals, characteristic odor	

**FIRE & EXPLOSION DATA**

Flash Point, COC: >110°C(>230°F) Autoignition Temp.: NA  
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.

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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. 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: 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 samarium oxide fumes.

## 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 and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: None required

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs

ISSUE DATE CXSM010: 1/25/07

SUPERSEDES: none

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