

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **RUBIDIUM ACETATE, monohydrate - CXRB010**

CHEMICAL NAME: RUBIDIUM ACETATE, monohydrate

SYNONYMS: ACETIC ACID, RUBIDIUM SALT

CHEMICAL FAMILY: RUBIDIUM COMPOUND

FORMULA: C₂H₃O₂Rb

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
RUBIDIUM ACETATE, monohydrate	563-67-7	>95		not established (OSHA PEL PARTICULATES: 10mg/m ³)

PHYSICAL DATA

Boiling Point: NA

Specific Gravity: >1

Vapor Density: NA

% volatiles: <3

Molecular Weight: 144.52

Appearance & Color: Colorless to white solid, hygroscopic

Melting Point: 246°C-decomp.

Vapor Pressure: not determined

Solubility in water, 45°: 850g/L

Evaporation rate: NA

Other: NA

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-(CXRB010)

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: Rubidium has been reported to replace potassium in animal studies. Indications are that overexposure could lead to accumulation in muscle and red blood cells with possible neuromuscular effects, hyperirritability and muscle spasms. No cases of industrial injury have been reported.

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: Caustic vapors and rubidium oxide fumes.

-2-(CXR010)

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: CHEMICALS NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE CXRB010: 6/3/03
SUPERSEDES: none

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