

GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE

CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: RHODIUM I DICARBONYL 2,4-PENTANEDIONATE - AKR663

CHEMICAL NAME: RHODIUM I DICARBONYL 2,4-PENTANEDIONATE

SYNONYMS: RHODIUM ACETYLACETONATE DICARBONYL

CHEMICAL FAMILY: RHODIUM COMPOUND

FORMULA: C₇H₇O₄Rh

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY CAS NO. % TLV OSHA PEL

RHODIUM I DICARBONYL 2,4-PENTANEDIONATE

14874-82-9 >95 TWA 1mg(Rh)m³ 0.1mg(Rh)m³

PHYSICAL DATA

Boiling Point: not determined Melting Point: 144-7°C

Specific Gravity: >1 Vapor Pressure: not determined Vapor Density: NA Solubility in water: insoluble Evaporation rate: NA

Molecular Weight: 258.04 Soluble: hexane

Appearance & Color: Green crystals

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.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemcial Abstract Service Registration Number Gelest, Inc. © 2008



ENVIRONMENTAL INFORMATION

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

Recommended Disposal: All material should be retained for precious metal recovery.

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

NOTE: Other organic rhodium salts are reported to be poisons by intraperitoneal routes. Mutagenic data has also 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

oxygen.

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

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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: CHEMICALS, NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE AKR663: 10/22/03

SUPERSEDES: none

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