

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **RHODIUM TRIFLUOROPENTANEDIONATE - AKR667**
CHEMICAL NAME: RHODIUM TRIFLUOROPENTANEDIONATE
SYNONYMS: RHODIUM TRIFLUOROACETYLACETONATE
CHEMICAL FAMILY: RHODIUM COMPOUND
FORMULA: C₁₅H₂₁O₆Rh

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
RHODIUM TRIFLUOROPENTANEDIONATE	67145-51-1	>95	TWA 1mg(Rh)m ³	0.1mg(Rh)m ³

PHYSICAL DATA

Boiling Point: not determined	Melting Point: 185-6°C - dec.
Specific Gravity: >1	Vapor Pressure: not determined
Vapor Density: NA	Solubility in water: insoluble
% volatiles: <1	Evaporation rate: NA
Molecular Weight: 562.14	Soluble: acetone, ether, chloroform
Appearance & Color: Yellow 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.

-1-(AKR667)

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 AKR667: 10/22/03

SUPERSEDES: none

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