

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **NICKEL II 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE - AKN584**
CHEMICAL NAME: NICKEL II 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE
SYNONYMS: NICKEL TMHD
CHEMICAL FAMILY: NICKEL COMPOUND
FORMULA: C₂₂H₃₈O₄Ni
HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
NICKEL II 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE	41749-92-2	>95%	not established	(OSHA PEL for nickel: 1mg(Ni)/m ³)

PHYSICAL DATA

Boiling Point: NA	Melting Point: 223-5°C
Specific Gravity: >1	Vapor Pressure, 90°: 0.1mm
Vapor Density: NA	Solubility in water: insoluble
% volatiles: <2	Evaporation rate: NA
Molecular Weight: 425.23	Other: NA
Appearance & Color: Green-turquoise powder	

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.

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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. Some nickel organic salts have been reported to be experimental neoplastigens and tumorigens. No testing has been conducted on nickel pentanedionate.

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: Store away from oxidizers.

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

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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: CHEMICALS, NOI

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE AKN584: 4/4/03

SUPERSEDES: none

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