

GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE CHEMTREC: 1-800-424-9300

NAME ON LABEL: 1,3-BIS(DIPHENYLPHOSPHINO)PROPANE NICKEL II CHLORIDE - INNI023

CHEMICAL NAME: 1,3-BIS(DIPHENYLPHOSPHINO)PROPANE NICKEL II CHLORIDE SYNONYMS: 1,3-BIS(DIPHENYLPHOSPHINO)PROPANE NICKEL II DICHLORIDE

CHEMICAL FAMILY: NICKEL COMPOUND

FORMULA: C₂₇H₂₆Cl₂P₂Ni

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY CAS NO. % TLV OSHA PEL

1,3-BIS(DIPHENYLPHOSPHINO)PROPANE NICKEL II CHLORIDE

15629-92-2 >95 not established

(OSHA PEL for nickel: 1mg(Ni)/m³)

PHYSICAL DATA

Boiling Point: NA

Specific Gravity: not determined

Vapor Density: NA % volatiles: <2

Molecular Weight: 542.05

Appearance & Color: Red powder

Melting Point: (210-220°C)

Vapor Pressure, 25°: not determined Solubility in water: slightly soluble

Evaporation rate: NA

Other: NA

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.

-1-(INNI023)

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: 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 this compound.

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 INNI023: 5/18/09 SUPERSEDES: 12/12/03

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