

# GELEST, INC. 11 East Steel Rd. Morrisville, PA 19067 Phone: (215) 547-1015

MATERIAL SAFETY DATA SHEET

**EMERGENCY TELEPHONE** CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: DIPHENYLDISELENIDE - OMSE028

CHEMICAL NAME: DIPHENYLDISELENIDE SYNONYMS: HEXAMETHYLDISILSELANANE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C<sub>12</sub>H<sub>10</sub>Se<sub>2</sub>

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 0

## **INGREDIENTS**

% **IDENTITY** CAS NO. TLV OSHA PEL

DIPHENYLDISELENIDE 1666-136 >97 not established not established (OSHA PEL, TWA as Se: 0.2mg/m<sup>3</sup>)

PHYSICAL DATA

Boiling Point: 160-5°C at 2mm Melting Point: 59-61°C Specific Gravity: 1.84 Vapor Pressure, 25°: ~2mm

Vapor Density (air = 1): >1 Solubility in water: insoluble, reacts % volatiles: >97 Evaporation rate: not determined

Molecular Weight: 312.13 Other: NA

Appearance & Color: Yellow-orange solid with strong stench.

#### FIRE & EXPLOSION DATA

Flash Point, COC: >65°C (>150°F) Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Carbon dioxide or dry powder.

Special Fire Fighting Procedures: Highly flammable. Material readily ignited with flame, sparks, friction or heat. Burning material may release toxic and corrosive fumes. Leave the area unless fitted with a self-contained breathing apparatus and fire protective clothing...

Unusual Fire and Explosion Hazards: Highly flammable material. Vapors can form explosive mixtures.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; occurrence of the concentration of the c



#### **ENVIRONMENTAL INFORMATION**

Spill response: Spillage of the material can create widespread odor problem. Leave the area unless fitted with a self-contained breathing apparatus. Small spills can be absorbed into vermiculite or other suitable absorbent. Odor can be attenuated by slurrying material adsorbed onto vermiculite with 3-5% aqueous sodium hypochlorite (bleach). Sweep or transfer to a suitable container for disposal.

Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

#### **HEALTH HAZARD DATA**

Eye Contact: No information available. Avoid Contact.

Skin contact: Avoid Contact.

Inhalation: Avoid inhalation.

Oral Toxicity: not determined

Note: The related compound DIPHENYLSELENIDE reported oral toxicity, rat: LD50: 360mg/kg

Inhalation Toxicity: not determined

TOXICITY-intravenous, mouse LD50: 28mg/kg

RTECS: JM9152500

#### 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. If coughing, shortness of breath or irritation persists seek medical attention.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give plenty of water to dilute ingested material. Get medical attention.

### REACTIVITY DATA

Stability: Stable in sealed containers stored.

Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating hydrogen selenide.

Conditions to avoid: Heat and ignition source.

Hazardous decomposition products: Hydrogen selenide, carbon monoxide, carbon dioxide, silicon dioxide and organic fumes.

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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



#### SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical with caustic scrubber is recommended. Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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.

Containers require grounding during use.

## TRANSPORTATION

DOT SHIPPING NAME: SELENIUM COMPOUND, SOLID, N.O.S., (DIPHENYLDISELENIDE)

DOT HAZARD CLASS: 6.1

**DOT LABEL: Toxic** 

DOT ID No: UN3283

Prepared by safety and environmental affairs MSDS ISSUE DATE: OMSE028: 3/12/13

PG: II

SUPERSEDES: none

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