

**GELEST, INC.**

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MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **DIPHENYLSILANEDIOL - SID4560.0**  
CHEMICAL NAME: DIPHENYLSILANEDIOL  
SYNONYMS: DIPHENYLDIHYDROXYSILANE  
CHEMICAL FAMILY: ORGANOSILANE  
FORMULA: C<sub>12</sub>H<sub>12</sub>O<sub>2</sub>Si

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
DIPHENYLSILANEDIOL	947-42-2	>90	not determined (OSHA PEL, nuisance dust: 15mg/m <sup>3</sup> )

**PHYSICAL DATA**

Boiling Point: not determined  
Specific Gravity: not determined  
Vapor Density: NA  
% volatiles: NA  
Molecular Weight: 216.32  
Appearance & Color: White powder

Melting Point: 138-142°C- decomposes  
Vapor Pressure at 25°C: not determined  
Solubility in water: insoluble  
Evaporation rate: NA  
Other: N/A

**FIRE & EXPLOSION DATA**

Flash Point, COC : >110°C (>230°F) Autoignition Temp.: not determined  
Flammability Limits: not determined

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 water or open flame.

-1-(SID4560.0)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Transfer to a suitable container for disposal.

Recommended Disposal: May be incinerated. Alternately, mix with clay or vermiculite and dispose of absorbent material 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 which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates of may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: Not determined.

Chronic Toxicity: There are no known chronic effects related to this compound.

TOXICITY- ipr mus, LD50: 2500mg/kg

### 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. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

## REACTIVITY DATA

Stability: Stable in sealed containers stored under a dry inert atmosphere.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Avoid contact with alcohols, acids, oxidizers.

Hazardous decomposition products: Organic acid vapors.

-2-(SID4560.0)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor/acid gas 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.

## 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 SID4560.0: 6/26/03

SUPERSEDES: 1/16/01

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