

**MATERIAL SAFETY
DATA SHEET**

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NAME USED ON LABEL: DIPHENYLSILANEDIOL
CHEMICAL NAME: DIPHENYLSILANEDIOL
SYNONYMS: DIPHENYLDIHYDROXYSILANE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₁₂H₁₂O₂Si
HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0

INGREDIENTS

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

PHYSICAL DATA

Boiling Point: not determined	Melting Point: 138-142°C- decomposes
Specific Gravity: not determined	Vapor Pressure at 25°C: not determined
Vapor Density: NA	Solubility in water: insoluble
% volatiles: NA	Evaporation rate: NA
Molecular Weight: 216.32	Other: N/A
Appearance & Color: White powder	

FIRE & EXPLOSION DATA

Flash Point, COC : 53°C 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.

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

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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.: Chemical Abstract Service Registration Number
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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.

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: DIPHENYLSILANEDIOL, FLAMMABLE SOLID, N.O.S.
DOT HAZARD CLASS: 4.1
DOT LABEL: FLAMMABLE SOLID
DOT ID No: UN1325 PG II

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