



1 Identification Product identifier Product name: Diphenylsilanediol Stock number: L04170 CAS Number: 947-42-2 EC number: 213-427-4 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) \* GHS02 Flame Flam. Sol. 2 H228 Flammable solid Hazards not otherwise classified No information known. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS02 Signal word Warning Hazard statements H228 Flammable solid. 

 H228 Frammable solid.

 Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P240
 Ground/bond container and receiving equipment.

 P241
 Use explosion-proof electrical/ventilating/lighting/equipment.

 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

 WHMMS classification

 WHMIS classification B4 - Flammable solid \* Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 0 Health (acute effects) = 02 Flammability = 2 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 947-42-2 Diphenylsilanediol Identification number(s): EC number: 213-427-4 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Meet important symptoms and effects, both acute and delayed No further relevant information av Most important symptoms and effects, both acute and delayed No further relevant information available. (Contd. on page 2)

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Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dióxide Silicon oxide Advice for firefighters **Protective equipment:** Wear self-contained respirator. Wear fully protective impervious suit.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources **Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Keep away from ignition sources. Ensure adequate ventilation. **Prevention of secondary hazards:** Keep away from ignition sources. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

### Handling

	Handling	
	Precautions for safe handling	
	Handle under dry protective gas.	
	Keep container tightly sealed.	
	Store in cool, dry place in tightly closed containers.	
	Ensure good ventilation at the workplace.	
	Information about protection against explosions and fires:	
	Protect against electrostatic charges.	
	Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities		
	Storage	
	<b>Requirements to be met by storerooms and receptacles:</b> Store in a cool location.	
	Information about storage in one common storage facility:	
	Store away from oxidizing agents.	
	Store away from water/moisture.	
	Further information about storage conditions:	
	Store under dry inert gas.	
	This product is moisture sensitive.	

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available.

Melting point/Melting range:

8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. **Control parameters** Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Breatning equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Powder Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition

138-142 °C (280-288 °F)

# Product name: Diphenylsilanediol

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Product name: Diphenylsilanediol				
		(Contd. of page 2)		
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined			
Flash point: Flammability (solid, gaseous)	53 °C (127 °F) Highly flammable.			
lonition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits: Lower:	Not determined			
Upper: Vapor prossuro:	Not determined Not applicable.			
Vapor pressure: Density:	Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.			
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide				
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Irritating effect. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
			13 Disposal considerations	
Recommendation Consult state, local Uncleaned packagings:	Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information				
UN-Number DOT, IMDG, IATA	UN1325			
UN proper shipping name				
DOT IMDG, IATA	Flammable solids, organic, n.o.s. (Dihydroxydiphenylsilane) FLAMMABLE SOLID, ORGANIC, N.O.S. (Dihydroxydiphenylsilane)			
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per OSHA HazCom 2012 Printing date Reviewed on				
Product name: Diphenylsilanediol				
Transport barrand slass (as)	(Contd. of page 3)			
Transport hazard class(es) DOT				
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosives.			
Class	<ul> <li>4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives</li> <li>4.1</li> </ul>			
IMDG, IATA	4.1			
Class Label	<i>4.1 Flammable solids, self-reactive substances and solid desensitised explosives.</i> <i>4.1</i>			
Packing group DOT, IMDG, IATA	III			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Flammable solids, self-reactive substances and solid desensitised explosives			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod Transport/Additional information:	e Not applicable.			
DOT				
Marine Pollutant (DOT): UN "Model Regulation":	No UN1325, Flammable solids, organic, n.o.s. (Dihydroxydiphenylsilane), 4.1, III			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms				
16 Other information         Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.         Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:         ADSr. Accord surples and clonyms:         ADSr. Accord surples of the transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)         IMGS: International Maritime Code for Dangerous Goods         OHAR: International Maritime Code Ison Dangerous Goods         OBS: Chemical Abstracts Service (division of the American Chemical Substances EAS: European Inventory of Existing Commercial Chemical Substances ECAS: Chemical Abstracts Service (division of the American Chemical Society)         HMIS: Workplace Hazardous Materials Information System (Canada)         LSS0: Lethal dose, 50 percent         VPW: VP Persistent and very Bioaccumulative         ACGIH: American Conference of Governmental Industrial Hygienists (USA)         OSHA: Occupational Agercy (USA)         NTP: National Toxicology Program (USA)				