



Safety Data Sheet

Version 7.0
Revision Date: 04/11/2019

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION




Product name: **Deuterated Dichlorodimethylsilane-d6**
Product abbreviation: D6DCSi
Product use: For laboratory research purposes.
Supplier / Manufacturer: Polymer Source, Inc.
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2. HAZARDS IDENTIFICATION

Emergency overview: WHMIS classification: B2. Flammable liquid.
D1A. Very toxic material causing immediate and serious toxic effects: Highly toxic by inhalation.
E. Corrosive material. Corrosive to skin.

GHS classification: Flammable liquid (Category 2);
Acute toxicity, Oral (Category 4);
Acute toxicity, Inhalation (Category 3);
Skin corrosion / irritation (Sub-category 1A);
Serious eye damage / eye irritation (Category 1).

GHS Label elements, including precautionary statements:

Pictogram:   

Signal word: Danger

Hazard statements: H225. Highly flammable liquid and vapour.
H302. Harmful if swallowed.
H314. Causes severe skin burns and eye damage.
H331. Toxic if inhaled.

Precautionary statements: P210. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261. Avoid breathing dust, fume, gas, mist, vapours, spray.

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

P304 + P340 + P310. ***IF INHALED:*** Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Center or doctor/ physician.

P305 + P351 + P338. ***IF IN EYES:*** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310. Immediately call a POISON CENTER or doctor / physician.

HMIS classification:	Health hazard:	3
	Flammability:	3
	Physical hazards:	0
Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Skin:	Harmful if absorbed through skin. May cause skin irritation.
	Eyes:	Causes severe eye burns. May cause eye irritation.
	Ingestion:	Harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula:	Dimethyldichlorosilane-d ₆ :	C ₂ D ₆ Cl ₂ Si
Concentration:	≤ 100 %	
CAS registry number:	Dimethyldichlorosilane-d ₆ (<i>labeled</i>):	n/a
	Dimethyldichlorosilane (<i>unlabeled</i> , C ₂ H ₆ Cl ₂ Si):	75-78-5

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability:	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
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Suitable extinguishing media:	Dry powder.
Specific hazards arising from the chemical:	Flash back possible over considerable distance. Container explosion may occur under fire conditions.
Special protective equipment for firefighters:	Wear self contained breathing apparatus for firefighting if necessary.
Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas, Silicon oxides.
Explosion data:	Sensitivity to mechanical impact: no data available Sensitivity to static discharge: no data available
Further information:	Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from water. Never allow product to get in contact with water during storage. Recommended storage temperature 2–8 °C. Handle and store under inert gas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment:	
• Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
• Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact

with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

- Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- Specific engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	Liquid
	Colour:	Colourless
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	no data available
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapour pressure:	no data available
	Density:	no data available
	Water solubility:	hydrolyses
	Partition coefficient: n-octanol/water:	no data available
	Relative vapour density:	no data available
	Odour:	no data available
	Odour threshold:	no data available
	Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Radioactivity:	Stable isotope compound. Not radioactive.
Possibility of hazardous reactions:	Vapours may form explosive mixture with air. Reacts violently with water.

Conditions to avoid:	Do not allow water to enter container because of violent reaction. Heat, flames and sparks. Exposure to moisture.
Materials to avoid:	Alcohols, Amines, Strong bases.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas, Silicon oxides. Other decomposition products: no data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	
Serious eye damage/eye irritation:	no data available	
Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	no data available	
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	no data available	
Teratogenicity:	no data available	
Specific target organ toxicity:	Single exposure (Globally Harmonized System):	no data available
	Repeated exposure (Globally Harmonized System):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
	Ingestion:	Harmful if swallowed.
	Skin:	Harmful if absorbed through skin. May cause skin burns.
	Eyes:	Causes severe eye burns. May cause eye irritation.
Signs and symptoms of exposure:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

Synergistic effects:	no data available
Additional information:	RTECS: VV3150000

12. ECOLOGICAL INFORMATION

Toxicity:	no data available
Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Product:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US):	UN number: 1162	Class: 3 (8)	Packing group: II
	Proper shipping name: Dimethyldichlorosilane-d6		
	Reportable Quantity (RQ): –		
	Marine pollutant: No		
	Poison Inhalation Hazard: No		
IMDG:	UN number: 1162	Class: 3 (8)	Packing group: II
	EMS-No: F-E, S-C		
	Proper shipping name: Dimethyldichlorosilane-d6		
	Marine pollutant: No		
IATA:	UN number: 1162	Class: 3 (8)	Packing group: II
	Proper shipping name: Dimethyldichlorosilane-d6		
	IATA passenger: Not permitted for transport		

15. REGULATORY INFORMATION

WHMIS classification:	B2.	Flammable liquid.
	D1A.	Very toxic material causing immediate and serious toxic effects: Highly toxic by inhalation.
	E.	Corrosive material. Respiratory sensitizer. Severe eye irritant. Corrosive to skin.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Date of the latest revision: 4 November 2019

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.