

CHEMICALS, INC.

Revision: 15.07.2021

SECTION 1:	Identification of the substance/mixture and of the company/undertaking
· 1.1 Product ide	ntifier
· Trade name: Po	erfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS
	4-5450 entified uses of the substance or mixture and uses advised against pant information available.
• <b>1.3 Details of th</b> • <b>Manufacturer</b> /S Strem Chemical 7 Mulliken Way NEWBURYPOF USA info@strem.com	ls, Înc. RT, MA 01950
• 1.4 Emergency EMERGENCY:	ation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600
SECTION 2:	P Hazards identification
Classification a	on of the substance or mixture according to Regulation (EC) No 1272/2008 05 corrosion H314 Causes severe skin burns and eye damage.
Eye Dam. I I	H318 Causes serious eye damage.
	ding to Regulation (EC) No 1272/2008 s classified and labelled according to the CLP regulation.
GHS05	
· Signal word Da	ngar
· Hazard stateme	
-	were skin burns and eye damage.
· Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P231	Handle under inert gas.
<i>P303</i> + <i>P361</i> + <i>P</i> .	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
D (00	present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2) GB

Printing date 15.07.2021

Revision: 15.07.2021

### Trade name: Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS

- P422 Store contents under inert gas.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- · 2.3 Other hazards

P501

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 78560-44-8 Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97%

### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 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.

(Contd. on page 3)



(Contd. of page 1)

Printing date 15.07.2021

Revision: 15.07.2021

#### Trade name: Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS

(Contd. of page 2)

### **SECTION 7: Handling and storage**

- $\cdot$  7.1 Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

GB



Printing date 15.07.2021

CHEMICALS, INC.

Revision: 15.07.2021

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Eye protection:		
Tightly sealed goggles		
9.1 Information on basic physical and c	chemical properties	
General Information		
Appearance:	· · · ·	
Form:	Liquid	
Colour:	Colourless	
Odour: Odour threshold:	Pungent Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point: Initial boiling point and boiling range	Undetermined.	
01 0 0	200 °C	
Flash point:		
Flammability (solid, gas):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	1.71 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:	N	
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0%	
VOC (EC)	0.00 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

GB

Printing date 15.07.2021

Revision: 15.07.2021

(Contd. of page 4)

Trade name: Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- $\cdot$  Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- $\cdot$  Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

Printing date 15.07.2021

CHEMICALS, INC.

Revision: 15.07.2021

(Contd. of page 5)

Trade name: Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS

• Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information	tion
14.1 UN-Number	
ADR, IMDG, IATA	UN2987
14.2 UN proper shipping name	
ADR	2987 CHLOROSILANES, CORROSIVE, N.O.S.
IMDG, IATA	CHLOROSILANES, CORROSIVE, N.O.S.
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
all	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	E
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
-	Not permitted as Excepted Quantity
UN ''Model Regulation'':	UN 2987 CHLOROSILANES, CORROSIVE, N.O.S., 8, II

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· National regulations:

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 7)

GB -

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Trade name: Perfluorodecyl-1H,1H,2H,2H-trichlorosilane, 97% FDTS

(Contd. of page 6)

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1