



### SAFETY DATA SHEET Fudosteine

Revision: 02/25/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 16722
Product Name: Fudosteine

**Synonyms:** S-(3-hydroxypropyl)-L-cysteine; SS320A;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Relevant identified uses:** For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:
- 2.2 Label Elements:
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

**GHS Signal Word:** 

**GHS Hazard Phrases:** 

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

**GHS Precaution Phrases:** 

No phrases apply.

**GHS** Response Phrases:

No phrases apply.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.

**2.3** Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

**Effects and Symptoms:** May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

## Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
13189-98-5 HA2350000	Fudosteine	100.0 %	NA NA	No data available.





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Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures:

**In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

## Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

**Media:** Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

**5.2** Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

**Explosive Limits:** LEL: No data. UEL: No data.

Autoignition Pt: No data.

**5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

#### Section 6. Accidental Release Measures

**6.1** Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental** Take steps to avoid release into the environment, if safe to do so.

Precautions:

**6.3 Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

## Section 7. Handling and Storage

**7.1 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

#### Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
13189-98-5	Fudosteine	No data.	No data.	No data.

Multi-region format

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10.6 Hazardous

**Decomposition Or Byproducts:** 

No data available.

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CAS	#	Partial Chemical Name	<del></del>	OSHA TWA	ACGIH TWA	Other Limits
13189-98-5 Fudosteine			No data.	No data.	No data.	
.2	Exposu	re Controls:				
.2.1	Engine	ering Controls Use	process enclos	sures, local exhaust vent	tilation, or other engineering c	ontrols to control airbor
	(Ventila	tion etc.): leve	s below recom	mended exposure limits		
.2.2	Person	al protection equipmen	t:			
	Eye Pro	otection: Safe	ty glasses			
	Protecti	ive Gloves: Com	patible chemic	al-resistant gloves		
	Other P	rotective Clothing:Lab	coat			
Respiratory Equipment NIOSH approved respiration (Specify Type):				espirator, as conditions v	varrant.	
	Work/H	<b>ygienic/Maintenan</b> Do r	ot take internal	ly.		
	ce Prac	tices: Faci	ities storing or	utilizing this material she	ould be equipped with an eye	wash and a safety show
		Was	h thoroughly af	ter handling.		
		No o	ata available.			
		Section	on 9. Phy	sical and Chem	nical Properties	
.1	Informat	tion on Basic Physical a	and Chemical	Properties		
	Physica	al States:	[ ] Gas	[ ] Liquid [ X ] Solid	d	
	Appeara	ance and Odor:	A crystalline	solid		
	Melting		No data.			
	Boiling	Point:	No data.			
	Flash P	t:	No data.			
	=	ation Rate:	No data.			
	-	ve Limits:	LEL: No da	ta.	UEL: No data.	
	-	Pressure (vs. Air or mm	No data.			
	Hg):					
	-	Density (vs. Air = 1):	No data.			
	-	Gravity (Water = 1):	No data.			
		ty in Water:	No data.	DDQ ( 11 7 0)		
		ty Notes:	-	n PBS (pH 7.2);		
		nition Pt:	No data.			
.2	Other In	formation				
	Percent	: Volatile:	No data.			
	Molecul	lar Formula & Weight:	C6H13NO3	S 179.2		
			Section 1	0. Stability and	Reactivity	
0.1	Reactiv	ity: No o	ata available.			
0.2	Stability	<b>y</b> : Unst	able [ ] S	table [ X ]		
0.3	Stability	/ Note(s): Stab	le if stored in a	ccordance with informat	ion listed on the product inser	t.
	Polyme	rization: Will	occur[] V	Vill not occur [X]		
0.4	Condition	ons To Avoid: No o	ata available.			
0.5	Incomp	atibility - Materials No o	lata available.			
	To Avoi	d:				





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Section 11. Toxicological Information

**11.1** Information on The toxicological effects of this product have not been thoroughly studied.

**Toxicological Effects:** Fudosteine - Toxicity Data: Oral Rodent - rat 22 gm/kg; **Chronic Toxicological** Fudosteine - Investigated as a reproductive effector.

**Effects:** Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Fudosteine RTECS Number: HA2350000

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
13189-98-5	Fudosteine	n.a.	n.a.	n.a.	n.a.

### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

**12.2** Persistence and No data available.

Degradability:

**12.3** Bioaccumulative No data available.

Potential:

12.4 Mobility in Soil: No data available.12.5 Results of PBT and vPvB No data available.

assessment:

### Section 13. Disposal Considerations

**13.1** Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

## Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not dangerous goods.

DOT Hazard Class: UN/NA Number:

#### 14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

## Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
13189-98-5	Fudosteine	No	No	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
13189-98-5	Fudosteine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No



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Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

**Statement:** No.1272/2008.

Section 16. Other Information

**Revision Date:** 02/25/2015

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.