

Hexadecyltriethoxysilane Safety Data Sheet 6183119 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 10/08/2018

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SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Hexadecyltriethoxysilane		
CAS No	: 16415-13-7		
Product code	: 6183-1-19		
Formula	: C22H48O3Si		
Synonyms	: Hexadecyltriethoxysilane		
Other means of identification	: MFCD00054793		
1.2. Relevant identified uses of the s		advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substanc Scientific research and d		
1.3. Details of the supplier of the sa	fety data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309			
Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097	са		
info@synquestlabs.com - www.synquestlab	os.com		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Com	pany - Account 10069)	
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irrita	tion	
	H319 - Causes skin inte H319 - Causes serious e H335 - May cause respir	ye irritation	
Precautionary statements (GHS-US)	P280 - Wear protective of P302+P352 - If on skin: N P304+P340 - If inhaled: I P305+P351+P338 - If in lenses, if present and ea P312 - Call a POISON C P321 - Specific treatmen P332+P313 - If skin irrita P337+P313 - If eye irrita P362+P364 - Take off cc P403+P233 - Store in a N P405 - Store locked up		preathing
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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	S)			
Not applicable				
SECTION 3: Composition/informa	ation on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
Hexadecyltriethoxysilane (Main constituent)		(CAS No) 16415-13-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			·	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures	S			
First-aid measures general	where	se of accident or if you feel unwell, se possible). Move the affected person	nel away from the	e contaminated area.
First-aid measures after inhalation	respir	ove person to fresh air and keep com ration. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get n		
First-aid measures after eye contact First-aid measures after ingestion	prese	diately flush eyes thoroughly with wa nt and easy to do. Continue rinsing. ( OT induce vomiting. Never give anyth	Get medical advice	e/attention.
Inst-aid measures after ingestion		n out with water. Get medical advice/		in unconscious person. Rinse
	effects, both	acute and delayed		had in the labelling (ass section
4.2. Most important symptoms and e Symptoms/injuries	effects, both : The n			bed in the labelling (see section
Symptoms/injuries	effects, both : The n 2.2) a	acute and delayed nost important known symptoms and nd/or in section 11.		bed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate mediate	effects, both : The n 2.2) a	acute and delayed nost important known symptoms and nd/or in section 11.		bed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate med Treat symptomatically.	effects, both : The n 2.2) a dical attention	acute and delayed nost important known symptoms and nd/or in section 11.		bed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate med Treat symptomatically. SECTION 5: Firefighting measure	effects, both : The n 2.2) a dical attention	acute and delayed nost important known symptoms and nd/or in section 11.		bed in the labelling (see section
Symptoms/injuries         4.3.       Indication of any immediate media         Treat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media	effects, both : The n 2.2) a dical attention es : Alcoh	acute and delayed nost important known symptoms and nd/or in section 11.	effects are descril	
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6.2. Environmental precautions			
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.		
6.3. Methods and material for conta	Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storag	e		
7.1. Precautions for safe handling			
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, inc	luding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		
SECTION 8: Exposure controls/p	personal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical ar	nd chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: -9 °C		
Freezing point	: No data available		
Boiling point	: 160 - 161 °C (@ 1 mm Hg)		
Flash point	: > 150 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Vapor pressure	: No data available		
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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.888 g/ml (@ 20 °C)
Molecular mass	: 388.7002 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.437 (@ 20 °C)
<b>SECTION 10: Stability and read</b>	tivity
SECTION 10: Stability and read	stivity
	stivity
10.1. Reactivity	stivity
10.1.ReactivityNo additional information available	
10.1.ReactivityNo additional information available10.2.Chemical stability	and storage conditions.
10.1.ReactivityNo additional information available10.2.Chemical stabilityThe product is stable at normal handling a	and storage conditions.

Keep away from heat, sparks and flame. Moisture.

#### 10.5. Incompatible materials

Oxidizing agents. Water.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information	n	
12.1.	Toxicity		
No add	itional information available		
12.2.	Persistence and degradability		
No add	itional information available		
12.3.	Bioaccumulative potential		
No add	itional information available		
			1/2

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12.4. Mobility in soil

#### No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns	
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with	an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with lice	censed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information		
Department of Transportation (DOT)		
In accordance with DOT		
Not regulated for transport		
TDG		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available		
	10	
SECTION 15: Regulatory informatio	11	
15.1. US Federal regulations		
All components of this product are listed, or ex Substances Control Act (TSCA) inventory exce	cluded from listing, on the United States Environmental ept for:	Protection Agency Toxic
l leve de sultrietheur veil s = -		
Hexadecyltriethoxysilane	CAS No 16415-13-7	100%
This product or mixture does not contain a tox	CAS No 16415-13-7 ic chemical or chemicals in excess of the applicable de n ements of section 313 of Title III of the Superfund Amen	ninimis concentration as specified in 40
This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372.	c chemical or chemicals in excess of the applicable de n	ninimis concentration as specified in 40
This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. <b>15.2. International regulations</b> CANADA	c chemical or chemicals in excess of the applicable de n	ninimis concentration as specified in 40
This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372.	c chemical or chemicals in excess of the applicable de n	ninimis concentration as specified in 40
This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b>	c chemical or chemicals in excess of the applicable de n	ninimis concentration as specified in 40
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This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> <b>Hexadecyltriethoxysilane (16415-13-7)</b> Listed on IECSC (Inventory of Existing Chemic Listed on PICCS (Philippines Inventory of Chemic	c chemical or chemicals in excess of the applicable de n ements of section 313 of Title III of the Superfund Amen cal Substances Produced or Imported in China) micals and Chemical Substances)	ninimis concentration as specified in 40
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This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> <b>Hexadecyltriethoxysilane (16415-13-7)</b> Listed on IECSC (Inventory of Existing Chemic Listed on PICCS (Philippines Inventory of Che Listed on the TCSI (Taiwan Chemical Substan <b>15.3. US State regulations</b> California Proposition 65 - This product does	c chemical or chemicals in excess of the applicable de n ements of section 313 of Title III of the Superfund Amen al Substances Produced or Imported in China) micals and Chemical Substances) ce Inventory)	ninimis concentration as specified in 40 idments and Reauthorization Act of 1986

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Full tex	t of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA I	health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA f	fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA ı	reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physica	al	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

#### SDS US (GHS HazCom 2012)

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