

Hexadecyltriethoxysilane

Safety Data Sheet 6183119 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/08/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Hexadecyltriethoxysilane
CAS No	: 16415-13-7
Product code	: 6183-1-19
ormula	: C22H48O3Si
Synonyms	: Hexadecyltriethoxysilane
Other means of identification	: MFCD00054793
.2. Relevant identified uses of the	substance or mixture and uses advised against
Ise of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
.3. Details of the supplier of the sa	afety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Amer (386) 462-0788 - F (386) 462-7097	ICA
nfo@synquestlabs.com - www.synquestlab	os.com
4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
.1. Classification of the substance	or mixture
Classification (GHS-US)	
	_
Skin Irrit. 2 H315 - Causes skin irritatio Eye Irrit. 2A H319 - Causes serious eye	
STOT SE 3 H335 - May cause respirato	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
lazard pictograms (GHS-US)	
	GHS07
ignal word (GHS-US)	: Warning
lazard statements (GHS-US)	: H315 - Causes skin irritation
	H319 - Causes serious eye irritation
	H335 - May cause respiratory irritation
recautionary statements (GHS-US)	: P261 - Avoid breathing fumes, mist, spray, vapors
	P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P302+P352 - If on skin: Wash with plenty of soap and water
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell
	P321 - Specific treatment (see supplemental first aid instructions on this label)
	P332+P313 - If skin irritation occurs: Get medical advice/attention
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed
	P405 - Store locked up
	P501 - Dispose of contents/container to an approved waste disposal plant
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No additional information available				
2.4. Unknown acute toxicity (GHS U	JS)			
Not applicable				
SECTION 3: Composition/inform	hation on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identifie	r	%	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	I	I_		
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	es			
First-aid measures general	: In case of accident or if y where possible). Move th			
First-aid measures after inhalation	: Remove person to fresh a respiration. Get medical a		ole for breathin	g. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap	and water. Get medic	al advice/atten	tion.
First-aid measures after eye contact	present and easy to do. C	Continue rinsing. Get n	nedical advice/	
First-aid measures after ingestion	: Do NOT induce vomiting. mouth out with water. Ge			unconscious person. Rinse
	l effects, both acute and delayed			
Symptoms/injuries	: The most important know 2.2) and/or in section 11.		ts are describe	ed in the labelling (see section
4.3. Indication of any immediate me	edical attention and special treat	ment needed		
Treat symptomatically.				
SECTION 5: Firefighting measur	res			
5.1. Extinguishing media				
		arbon dioxide. Drv pov	1 147 /	
Suitable extinguishing media	: Alcohol resistant foam. C appropriate for surroundir	<i>2</i> 1	wder. Water sp	ray. Use extinguishing media
	appropriate for surroundir	<i>2</i> 1	wder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the	appropriate for surroundir	ng fire.		
5.2. Special hazards arising from the Fire hazard	appropriate for surroundir he substance or mixture : Thermal decomposition g	ng fire. generates: Carbon oxic	des. Silicon oxid	
5.2. Special hazards arising from the Fire hazard Explosion hazard	appropriate for surroundir he substance or mixture : Thermal decomposition g : Risk of explosion if heate	ng fire. generates: Carbon oxic	des. Silicon oxid	des.
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Fire hazard Explosion hazard	appropriate for surroundin he substance or mixture : Thermal decomposition g : Risk of explosion if heate containers. : In case of fire: Evacuate a : Wear gas tight chemically	ng fire. Jenerates: Carbon oxic Id under confinement. area. Fight fire remote y protective clothing in	les. Silicon oxid Use water spra ly due to the ris combination w	des. ay or fog for cooling exposed
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6.2. Environmental precautions		
Avoid release to the environment. Notify aut	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	le	
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/personal protection

8.1. **Control parameters**

No additional information available

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 and 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)	

Refractive index

: 1.437 (@ 20 °C)

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No add	itional information available		
10.2.	Chemical stability		
The pro	oduct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No add	itional information available		
10.4.	Conditions to avoid		
Keep a	way from heat, sparks and flame. Moisture.		
10.5.	Incompatible materials		
Oxidizir			

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	

SECTION	SECTION 12: Ecological information			
12.1.	Toxicity			
No additi	onal information available			
12.2.	Persistence and degradability			
No additi	onal information available			
12.3.	Bioaccumulative potential			
No additi	onal information available			

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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 w	ith licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport informa	tion	
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		
SECTION 15: Regulatory inform	ation	
15.1. US Federal regulations		
All components of this product are listed, Substances Control Act (TSCA) inventor	or excluded from listing, on the United States Environme	ental Protection Agency Toxic
Hexadecyltriethoxysilane	CAS No 16415-13-7	100%

and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

Hexadecyltriethoxysilane (16415-13-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

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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 health hazard		: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard		: 1 - Must be preheated before ignition can occur.	
NFPA	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	ammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liqu solids and semi solids having a flash point above 200 F. (Class IIIB)		
		: 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)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.