

Safety Data Sheet 8H83113 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/19/2018 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 3-Piperazinylpropylmethyldimethoxysilane
CAS No	: 128996-12-3
Product code	: 8H83-1-13
Formula	: C10H24N2O2Si
Synonyms	: 1-{3-[Dimethoxy(methyl)silyl]propyl}piperazine
Other means of identification	: MFCD12032181
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	iety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance of	
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritatioEye Dam. 1H318 - Causes serious eyoSkin Sens. 1BH317 - May cause an aller	on e damage rgic skin reaction
Skin Irrit. 2H315 - Causes skin irritatioEye Dam. 1H318 - Causes serious eyeSkin Sens. 1BH317 - May cause an allerSTOT SE 3H335 - May cause respirat	on e damage rgic skin reaction
Skin Irrit. 2H315 - Causes skin irritatioEye Dam. 1H318 - Causes serious eyoSkin Sens. 1BH317 - May cause an allerSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	on e damage rgic skin reaction
Skin Irrit. 2H315 - Causes skin irritatioEye Dam. 1H318 - Causes serious eyoSkin Sens. 1BH317 - May cause an allerSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	on e damage rgic skin reaction
Skin Irrit. 2H315 - Causes skin irritationEye Dam. 1H318 - Causes serious eyoSkin Sens. 1BH317 - May cause an allerSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 162.2.Label elements	on e damage rgic skin reaction
Skin Irrit. 2       H315 - Causes skin irritation         Eye Dam. 1       H318 - Causes serious eye         Skin Sens. 1B       H317 - May cause an aller         STOT SE 3       H335 - May cause respirate         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	on e damage rgic skin reaction tory irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Dam. 1       H318 - Causes serious eye         Skin Sens. 1B       H317 - May cause an aller         STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	on e damage rgic skin reaction tory irritation

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<ul> <li>2.3. Other hazards</li> <li>No additional information available</li> <li>2.4. Unknown acute toxicity (GHS US)</li> </ul>	P33 P33 P36 P36 P37 P40 P40 P40	2+P313 - If skin irritation occurs: Get med 3+P313 - If skin irritation or rash occurs: G 2+P364 - Take off contaminated clothing i 3 - Wash contaminated clothing before re 0+P378 - In case of fire: Use dry sand, dr 3+P233 - Store in a well-ventilated place. 3+P235 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap	Get medical advi and wash it befo use y chemical or alo Keep container Keep cool	ice/attention ore reuse cohol-resistant foam to extinguish tightly closed
Not applicable				
SECTION 3: Composition/informati	on on i	ngredients		
3.1. Substance				
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-Piperazinylpropylmethyldimethoxysilane (Main constituent)		(CAS No) 128996-12-3	<= 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 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				
First-aid measures general	whe	ase of accident or if you feel unwell, seek re possible). Move the affected personnel	away from the	contaminated area.
First-aid measures after inhalation	resp	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact	med	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
First-aid measures after eye contact	pres	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion	mou	NOT induce vomiting. Never give anything th out with water. Get immediate medical		
4.2. Most important symptoms and effe		•		
Symptoms/injuries	2.2)	most important known symptoms and effe and/or in section 11.		Ū (
Symptoms/injuries after inhalation		erial is destructive to tissue of the mucuou rtness of breath, headache, nausea.	is membranes a	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medic Treat symptomatically.	al attenti	on and special treatment needed		
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ohol resistant foam. Carbon dioxide. Dry p ropriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	e or mixture		
Fire hazard Explosion hazard	: Risl	rmal decomposition generates: Carbon ox of explosion if heated under confinement tainers.	-	
5.3. Advice for firefighters				
Firefighting instructions	: In c	ase of fire: Evacuate area. Fight fire remo	tely due to the ri	sk of explosion.
Protection during firefighting		ar gas tight chemically protective clothing i aratus. For further information refer to sec		

Odor

Odor threshold

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SECTION 6: Accidental release measure		
	uipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.	
6.3. Methods and material for containme	ent 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 storage		
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, including	ng any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/pers	onal 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.	
<b>SECTION 9: Physical and chemical p</b>	properties	
9.1. Information on basic physical and c		
Physical state	: Liquid	
Color	: No data available	
Odor		

: No data available

: No data available

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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 265 °C
Flash point	: 90 °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
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.975
Molecular mass	: 232.3953 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

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong oxidizing agents.
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 damage.		

Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION	ON 12: Ecological information
12.1.	Toxicity
No additi	ional information available
12.2.	Persistence and degradability
No additi	ional information available
12.3.	Bioaccumulative potential
No additi	ional information available
12.4.	Mobility in soil
No additi	ional information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
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 licensed 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

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

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

3-Piperazinylpropylmethyldimethoxysilane	CAS No 128996-12-3	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### **15.2. International regulations**

CANADA No additional information available

EU-Regulations No additional information available

National regulations No additional information available

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#### 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**

	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	Skin Sens. 1B	Skin sensitization Category 1B
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
	ealth hazard	<ul> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>0 Materials that will not hurn</li> </ul>
NFPA fire hazard		: 0 - Materials that will not burn.
NFPA reactivity		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III	Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability		: 0 Minimal Hazard - Materials that will not burn
Physical		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### 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.