

### Safety Data Sheet 8187102

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/28/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane		
CAS No	: 3069-29-2		
Product code	: 8187-1-02		
Formula	: C8H22N2O2Si		
Synonyms	: (2-Aminoethyl)({3-[dimethoxy(methyl)silyl]propyl})amine		
Other means of identification	: MFCD00054776		
1.2. Relevant identified uses of the subst	ance 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 safety d	ata sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	xture		
Classification (GHS-US)			
Flam. Liq. 4H227 - Combustible liquidAcute Tox. 4 (Oral)H302 - Harmful if swallowedSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSkin Sens. 1H317 - May cause an allergic skin reactionSTOT SE 3H335 - May cause respiratory irritationAquatic Acute 2H401 - Toxic to aquatic life			
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)	<ul> <li>H227 - Combustible liquid</li> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H317 - May cause an allergic skin reaction</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H401 - Toxic to aquatic life</li> </ul>		

- H401 Toxic to aquatic life
- : P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
  - P261 Avoid breathing fumes, mist, spray, vapors
  - P264 Wash skin thoroughly after handling
  - P270 Do not eat, drink or smoke when using this product
  - P271 Use only outdoors or in a well-ventilated area
  - P272 Contaminated work clothing must not be allowed out of the workplace

Precautionary statements (GHS-US)

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P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell
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)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash 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
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep container tightig closed
P405+F255 - Store in a weil-ventilated place. Reep cool
P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. **Other hazards**

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

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

#### 3.1. Substance

Substance type : Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane (Main constituent)	(CAS No) 3069-29-2	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401

### 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 :	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation :	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 :	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.
First-aid measures after eye contact :	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 :	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/injuries :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Symptoms/injuries after inhalation :	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.
4.3. Indication of any immediate medical at	tention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media :	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard :	Thermal decomposition generates: Carbon oxides. Nitrogen oxides. Silicon oxides.
Explosion hazard :	Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions :	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting :	Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equi	oment 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	
	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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authorities	if product enters sewers or public waters.
6.3. 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 storage	
7.1. Precautions for safe handling	
	Handle empty containers with care because residual vapors are flammable.
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
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	any incompatibilities
Technical measures :	Comply with applicable regulations.
Storage conditions :	Keep container closed when not in use. Keep away from ignition sources. 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/persor	al protection

SECTION 8: Exposure controls/personal protection		
8.1.	Control parameters	
No additional information available		

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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 chemical properties : Liquid Physical state Color : No data available Odor : No data available Odor threshold No data available pН : No data available Melting point : No data available Freezing point : No data available Boiling point : 265 °C (@ 25 mm Hg) : 90 °C Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : No data available : No data available Explosive properties Oxidizing properties No data available : No data available Vapor pressure Relative density : No data available Relative vapor density at 20 °C : No data available Specific gravity / density : 0.975 g/ml (@ 25 °C) Molecular mass 206.36 g/mol Solubility : No data available Log Pow : No data available Auto-ignition temperature No data available : No data available Decomposition temperature No data available Viscosity · Viscosity, kinematic No data available : Viscosity, dynamic : No data available 9.2. **Other information**

Refractive	indev
Renactive	IIIUEX

: 1.4447 (@ 20 °C)

SECTION	ON 10: Stability and reactivity			
10.1.	Reactivity			
No additi	onal information available			
10.2.	Chemical stability			
The prod	uct is stable at normal handling and stora	age conditions.		
10.3.	Possibility of hazardous reactions			
No additi	onal information available			
10.4.	Conditions to avoid			
Keep awa	Keep away from heat, sparks and flame.			
10.5.	Incompatible materials			
Acids. Al	Acids. Alcohols. Peroxides. Strong oxidizing agents.			
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### 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	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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.
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.

SECTIO	DN 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
12.4.	Mobility in soil
No additi	onal information available
12.5.	Other adverse effects
No additi	onal 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 Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
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	
N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane (3069-29-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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

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	
N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane (3069-29-2)	
Listed on the Canadian DSL (Domestic Sustances List)	
EU-Regulations No additional information available	

#### National regulations

N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane (3069-29-2) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Turkish inventory of chemical

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

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### SECTION 16: Other information

1 411 107		
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	Skin Sens. 1	Skin sensitization Category 1
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H401	Toxic to aquatic life
	health hazard fire hazard	<ul> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>2 - Must be moderately heated or exposed to relatively high</li> </ul>
		temperature before ignition can occur.
NFPA	reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambie temperatures before ignition will occur. Includes liquids having a flash point at or above 100 but below 200 F. (Classes II & IIIA)
Physica	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (GHS HazCom 2012)

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