

Safety Data Sheet 8183105 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/08/2018 Version: 1.0

Date of is	sue: 10/08/2018 Version: 1.	5	
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-(N,N-Dimethylaminoprop	l)(aminopropyl)methyldimethoxysilane	
CAS No	: 224638-27-1		
Product code	: 8183-1-05		
Formula	: C11H28N2O2Si		
Synonyms	: 3-(N,N-Dimethylaminoprop	/l)(aminopropyl)methyldimethoxysilane	
Other means of identification	: MFCD23103409		
1.2. Relevant identified uses of the subs	tance or mixture and uses ad	vised against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances Scientific research and dev	elopment	
1.3. Details of the supplier of the safety	data 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	<u>n</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or n	nixture		
Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if svAcute Tox. 4 (Inhalation)H332 - Harmful if inSkin Corr. 1AH314 - Causes sevEye Dam. 1H318 - Causes seri	haled ere skin burns and eye damage		
STOT SE 3 H335 - May cause r			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H302+H332 - Harmful if sv H314 - Causes severe skin H335 - May cause respirato	burns and eye damage	
Precautionary statements (GHS-US)	: P260 - Do not breathe fume P264 - Wash skin thorough P270 - Do not eat, drink or P271 - Use only outdoors o P280 - Wear protective glov P301+P312 - If swallowed: P301+P330+P331 - If swall P303+P361+P353 - If on skin with water/shower	es, mist, spray, vapors ly after handling smoke when using this product	you feel unwell ed clothing. Rinse
10/08/2018	EN (English US)	SDS ID: 8183105	Page 1

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

	lense P310 P321 P330 P363 P403 P405	 +P351+P338 - If in eyes: Rinse cautious s, if present and easy to do. Continue rin - Immediately call a POISON CENTER of - Specific treatment (see supplemental f - Rinse mouth - Wash contaminated clothing before reater P233 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an applemental sector place. 	sing or doctor/ physic irst aid instructio use Keep container	cian ons on this label) tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type :	Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-(N,N- Dimethylaminopropyl)(aminopropyl)methyldimethoxysilar (Main constituent)	ne	(CAS No) 224638-27-1	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 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				
, i i i i i i i i i i i i i i i i i i i	where	se of accident or if you feel unwell, seek possible). Move the affected personnel	away from the	contaminated area.
	respir	ove person to fresh air and keep comforta ation. Get immediate medical advice/atte	ention.	
		with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate
·	prese	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 :		OT induce vomiting. Never give anything nout with water. Get immediate medical		
4.2. Most important symptoms and effects	, both	acute and delayed		
Symptoms/injuries :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation :		ial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the subs	tance o	or mixture		
Fire hazard :		nal decomposition generates: Carbon ox	-	
Explosion hazard :	Risk o conta	of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions :	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting :		gas tight chemically protective clothing i atus. For further information refer to sec		

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

SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
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 authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containmer	nt 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	g any incompatibilities
Fechnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/perso	nal protection
3.1. Control parameters	
No additional information available	
3.2. 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 p	roperties
9.1. Information on basic physical and ch	emical properties
	: Liquid
Color	: No data available

: No data available

Odor

Odor threshold

10/08/2018

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Kules and Regulations
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 106 °C (@ 30 mm Hg)
Flash point	: 99 °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	: 0.948 g/ml
Molecular mass	: 248.4377 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	: 1.415
SECTION 10: Stability and reactivit	ty .
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions.
10.3. Possibility of hazardous reactions	ŝ
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
Acids. Alcohols. 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

: Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.

3-(N,N-Dimethylaminopropyl)(aminopropyl)methyldimethoxysilane (224638-27-1)		
ATE US (oral)	500.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/irritation	Causes serious eye damage.	
Respiratory or skin sensitization	Not classified	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

Packing group (DOT)

DOT Symbols

: UN1760 Corrosive liquids, n.o.s., 8, III

- : UN1760
- : Corrosive liquids, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1760
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1760
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
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:

Oubstances Control Act (100A) inventory exception.		
3-(N,N-	CAS No 224638-27-1	100%
Dimethylaminopropyl)(aminopropyl)methyldimethoxysilane		

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

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

Full text of H-phrases	5:
------------------------	----

i un tez	a ur r-prilases.	
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Corr. 1A	Skin corrosion/irritation Category 1A
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H302	Harmful if swallowed
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity		 given. 1 - Must be preheated before ignition can occur. 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		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability		: 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)
Physical		: 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

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.

hazardous polymerization in the absence of inhibitors.