

Safety Data Sheet SIA0602.0 Date of issue: 01/07/2015 Version: 1.0

1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: 3-AMINOPROPYLDIISOPROPYLETHOXYSILANE		
Product code	: SIA0602.0		
Formula	: C11H27NOSi		
Synonyms	: 3-(DIISOPROPYLETHOXYSILYL)PROPYLAMINE		
Chemical family	: ORGANOETHOXYSILANE		
•			
	substance or mixture and uses advised against		
Use of the substance/mixture	: Chemical intermediate For research use only		
1.3. Details of the supplier of the sa	afety data sheet		
GELEST, INC.			
11 East Steel Road Morrisville, PA 19067			
<b>USA</b> T 215-547-1015 - F 215-547-2484 - (M-F):	8:00 AM - 5:30 PM EST		
info@gelest.com     - www.gelest.com       1.4.     Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)		
	. Onewrite 5. 1 666 424 6666 (6674), 11 766 621 6667 (international)		
<b>SECTION 2: Hazards identification</b>	on		
2.1. Classification of the substance	e or mixture		
Classification (GHS-US)			
Skin Corr. 1B H314			
Eye Dam. 1 H318			
STOT SE 3 H335			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
GHS-US labeling Hazard pictograms (GHS-US)	CHS05 CHS07		
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger		
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul><li>Danger</li><li>H314 - Causes severe skin burns and eye damage</li></ul>		
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>Danger</li> <li>H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage</li> </ul>		
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absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest. This product contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

classification

SECTION 3: Composition/information on ingredients				
	-constituent NOPROPYLDIISOPROPYLETHOXYSILANE 59-36-1			
Name	Product identifier	%	Classification (GHS-US)	
3-Aminopropyldiisopropylethoxysilane	(CAS No) 117559-36-1	> 95	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
Ethanol	(CAS No) 64-17-5		Flam. Liq. 2, H225 Carc. 1A, H350 STOT SE 3, H335	

#### 3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. 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	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	: Causes burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

measures
: Water spray. Foam. Carbon dioxide. Dry chemical.
ng from the substance or mixture
: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
S
: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.
: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emergency procedures		: Evacuate unnecessary personnel.	

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6.1.2. For emergency responses		Equip clea	nup crew with proper protec	ction.	
6.2. Environmental preca					
Prevent entry to sewers and put		thorities if	liquid enters sewers or publi	ic waters.	
6.3. Methods and materia	al for containment a	and cleani	ng up		
Methods for cleaning up			• •	le. using an absorbe	nt material to collect it. Sweep or
0 1			Ils into appropriate containe		
6.4. Reference to other s	ections				
See Heading 8. Exposure control	ols and personal prot	ection.			
<b>SECTION 7: Handling an</b>	nd storage				
7.1. Precautions for safe					
Precautions for safe handling					nd mist. Provide good ventilation in
		•	rea to prevent accumulation	•	
Hygiene measures			ds and other exposed areas nd when leaving work. Was		water before eating, drinking or
7.2. Conditions for safe s		0	Ū.		
Storage conditions			ainer tightly closed.		
Incompatible materials		•	ohols. Moisture. Oxidizing a	gent. Peroxides. Wat	er.
Storage area			well-ventilated place. Store		
7.3. Specific end use(s)					
No additional information availab	ble				
SECTION 8: Exposure c	ontrols/persons	al proto	otion		
8.1. Control parameters	ontrois/persona				
Ethanol (64-17-5)	ACGIH STEL (ppm	)		1000 ppm	
USA NIOSH	NIOSH REL (TWA)			1900 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (TWA)			1000 ppm	
USA OSHA	OSHA PEL (TWA)	(mg/m³)		1900 mg/m³	
USA OSHA	OSHA PEL (TWA)	(ppm)		1000 ppm	
USA IDLH	US IDLH (ppm)			3300 ppm (10% LE	EL)
8.2. Exposure controls					
Appropriate engineering controls			cal exhaust or general room		
Personal protective equipment			innecessary exposure. Eme n the immediate vicinity of a		ntains and safety showers should be
			in the inimediate vicinity of a		
Hand protection	:	Neoprene	or nitrile rubber gloves.		
Eye protection	:	Chemical	goggles. Contact lenses sho	ould not be worn.	
Skin and body protection	: '	Wear suita	able protective clothing.		
Respiratory protection	:	NIOSH-ce	rtified combination organic v	/apor - amine gas (b	rown cartridge) respirator.
<b>SECTION 9: Physical an</b>	d chemical pro	perties			
9.1. Information on basic			erties		
Physical state	1.2	Liquid			
Appearance	:	Clear liqui	d.		
Molecular mass	: :	217.43 g/r	nol		
Color	:	Straw.			
Odor			nmonia-like.		
Odor threshold		No data av	vailable		
Refractive index		1.4489			
pH : No data available					
Relative evaporation rate (butyl acetate=1)       : < 1					
Melting point		No data av < 0 °C	valiable		
Freezing point			@ 0.4 mm Hc		
Boiling point	:	78-80°C	@ 0.4 mm Hg		

Flash point

: > 100 °C

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg @ 20°C
Relative vapor density at 20 °C	: >1
Relative density	: 0.872
VOC content	: < 30 %
Solubility	: Reacts with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	

SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. **Chemical stability** Stable when stored in sealed containers. 10.3. Possibility of hazardous reactions Reacts with water and moisture in air, liberating ethanol. **Conditions to avoid** 10.4. Heat. Open flame. Sparks. 10.5. Incompatible materials Acids. Alcohols. Moisture. Oxidizing agent. Peroxides. Water. 10.6. Hazardous decomposition products Ethanol. Organic acid vapors.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Ethanol (64-17-5)			
LC50 inhalation rat (mg/l)	124.7 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		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Ethanol (64-17-5)			
IARC group	1 - Carcinogenic to humans		
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	: May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.		
Symptoms/injuries after skin contact	: Causes burns.		
Symptoms/injuries after eye contact	: Causes serious eye damage.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.		
Reason for classification	: Expert judgment		
04/07/2045			

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<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ethanol (64-17-5)	
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Ethanol (64-17-5)	
Log Pow	-0.32
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No.(DOT)	: 1760
DOT NA no.	UN1760
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.
	(3-AMINOPROPYLDIISOPROPYLETHOXYSILANE)
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
DOT Vessel Stowage Other	passenger vessel. : 40 - Stow "clear of living quarters"
-	
Air transport DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
01/07/2015	EN (English US) SDS ID: <b>SIA0602.0</b> 5/7

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SECTION 15: Regulatory information					
15.1. US Federal regulation					
		<b>E (117559-36-1)</b> CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.			
Ethanol (64-17-5)	' '				
Listed on the United States	s TSCA (Toxic Substance	es Control Act) inventory			
3-Aminopropyldiisoprop					
Not listed on the United St	ates TSCA (Toxic Substa	inces Control Act) inventory			
15.2. International regulati	ons				
Ethanol (64-17-5)					
Listed on IARC (International Agency for Research on Cancer) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory 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 the Canadian IDL (Ingredient Disclosure List)					
3-Aminopropyldiisoprop	( )	,			
15.3. US State regulations					
3-AMINOPROPYLDIISOPR					
U.S California - Propositio	-	No			
U.S California - Propositio Toxicity		No			
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No			
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No			
Ethanol (64-17-5)					
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicit	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	No	No		
3-Aminopropyldiisopropyl		-			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicit	U.S California - Proposition 65 - y Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		
Ethanol (64-17-5)					
U.S Idaho - Non-Carcinog U.S Idaho - Occupational U.S Maine - Chemicals of U.S Massachusetts - Allov U.S Massachusetts - Allov U.S Massachusetts - Oil & U.S Massachusetts - Oil & U.S Massachusetts - Oil & U.S Massachusetts - Oil &	ous Air Pollutants - HLVs enic Toxic Air Pollutants enic Toxic Air Pollutants Exposure Limits - TWAs High Concern wable Ambient Limits (AA wable Threshold Concent a Hazardous Material List a Hazardous Material List b Hazardous Material List a Hazardous Material List a Hazardous Material List b To Know List a Hazardous Effects Exposure Limits - TW	<ul> <li>(8 hr)</li> <li>Acceptable Ambient Concentrate</li> <li>Emission Levels (ELs)</li> <li>Ls)</li> <li>Groundwater Reportable Conce</li> <li>Groundwater Reportable Conce</li> <li>Reportable Quantity</li> <li>Soil Reportable Concentration</li> <li>Soil Reportable Concentration</li> <li>imits (TELs)</li> </ul>	entration - Reporting Category 1 entration - Reporting Category 2 - Reporting Category 1		

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#### Ethanol (64-17-5)

- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas City of Austin Aerosol Paint and Glue Restrictions
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

#### **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

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	Carc. 1A	Carcinogenicity Category 1A
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Flam. Liq. 2	Flammable liquids Category 2
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H225	Highly flammable liquid and vapor
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
	H350	May cause cancer

#### HMIS III Rating

Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard
Physical	: 1 Slight Hazard

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SDS US (GHS HazCom 2012) - Custom

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

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