

Safety Data Sheet SID3539.0 Date of issue: 01/30/2017 Version: Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: DIISOPROPYLETHOXYSILANE
Product code	: SID3539.0
Product form	: Substance
Physical state	: Liquid
Formula	: C8H20OSi
Synonyms	: ETHOXYDIISOPROPYLSILANE
Chemical family	: ORGANOETHOXYSILANE
1.2. Recommended use of the chemic	
Recommended use	: Chemical intermediate For research use only
1.3. Details of the supplier of the safet	ty data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0 info@gelest.com - www.gelest.com	0 AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	mixture
GHS-US classification	
Flammable liquids Category 3 Serious eye damage/eye irritation Category 2/ Full text of H statements : see section 16 2.2. Label elements	H226 A H319
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02 GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor
Precautionary statements (GHS-US)	 H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P210 - Keep away from heat, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P264 - Wash hands thoroughly after handling P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish P403+P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility
2.3. Hazards not otherwise classified	
Other hazards not contributing to the	: Additional ethanol may be formed by reaction with moisture and water. The US OSHA PEL
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classification	(TWA) for ethanol is 1000 ppm.		
2.4. Unknown acute toxicity (GHS U	5)		
No data available			
SECTION 3: Composition/Information	ation on ingredients		
3.1. Substances			
Substance type	: Mono-constituent		
Name	: DIISOPROPYLETHOXYSILANE		
CAS No	: 90633-16-2		
Name	Product identifier	%	GHS-US classification
Diisopropylethoxysilane	(CAS No) 90633-16-2	95 - 100	Flam. Liq. 3, H226 Eye Irrit. 2A, H319
Full text of hazard classes and H-statements	s : see section 16	I	
3.2. Mixtures			
Not applicable			
4.1. Description of first aid measure	5		
First-aid measures general	: Remove contaminated clothing and medical advice immediately (show th available show packaging or label.		
First-aid measures after inhalation	: Remove victim to fresh air and keep unwell, seek medical advice.	at rest in a position co	mfortable for breathing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly w present and easy to do. Continue rin		
First-aid measures after ingestion	: Rinse mouth. Never give anything by advice/attention.	/ mouth to an unconsc	ious person. Get medical
4.2. Most important symptoms and e	effects, both acute and delayed		
Symptoms/injuries after inhalation	: May cause irritation to the respirator	y tract.	
Symptoms/injuries after skin contact	: May cause skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: No information available.		
Chronic symptoms	: On contact with water this compound on the central nervous system.	d liberates ethanol whi	ch is known to have a chronic effect
4.3. Indication of any immediate me	lical attention and special treatment need	ed	
No additional information available			
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Water fog. Foam. Carb	on dioxide. Dry chemi	cal.
Unsuitable extinguishing media	: Do not use straight streams.		
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Flammable liquid and vapor. Irritating material is exposed to elevated temp		
Explosion hazard	: May form flammable/explosive vapor		
5.3. Advice for firefighters	• •		
Firefighting instructions	: Exercise caution when fighting any c containers.	hemical fire. Use wate	er spray or fog for cooling exposed
Protection during firefighting	 Do not enter fire area without proper Avoid all eye and skin contact and de 		
SECTION 6: Accidental release m 6.1. Personal precautions, protective	e equipment and emergency procedures		

General measures	: Eliminate ignition sources. Use special care to avoid static electric charges.	
6.1.1. For non-emergency personnel		
Protective equipment	: Wear protective equipment as described in Section 8.	
Emergency procedures	: Evacuate unnecessary personnel.	

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6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	
	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal pr	otection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces No smoking.
Precautions for safe handling	Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools.
Hygiene measures	Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions	Keep container tightly closed. Keep in a cool place.
Incompatible materials	Oxidizing agent.
Storage area	Store in a well-ventilated place. Store away from heat.
SECTION 8: Exposure controls/persor	al protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	Provide local exhaust or general room ventilation.
Personal protective equipment	Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	Neoprene or nitrile rubber gloves.
Eye protection	Chemical goggles. Contact lenses should not be worn.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.
SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	emical properties
Physical state	Liquid
Appearance	Clear liquid.
Molecular mass	160.33 g/mol
Color	No data available
Odor	Characteristic. Mild.
Odor threshold	No data available
Refractive index :	No data available
pH	No data available
Relative evaporation rate (butyl acetate=1)	<1
Melting point :	< 0 °C
Freezing point	No data available
Boiling point	148 °C
Flash point	35 °C
uto-ignition temperature : No data available	

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: < 100 mm Hg @ 25°C
Relative vapor density at 20 °C	: >1
Relative density	: 0.745
VOC content	: 100 %
Solubility	: Insoluble in water. 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
Explosion limits	: No data available

9.2. Other information

No additional information available

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	tional information available		
10.2.	Chemical stability		
Stable.			
10.3.	Possibility of hazardous reactions		
Material	decomposes slowly in contact with moist air or with wa	ater liberating ethanol. Platinum, platinum and iron salts and other Lewis acids can	

cause generation of flammable hydrogen gas in the presence of moisture.

10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Ethanol. Organic acid vapors. Silicon dioxide.	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This material slowly generates ethanol on contact with water and moisture in living tissues. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue.
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No information available.
Chronic symptoms	: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

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Reason for classification	: Expert judgment
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	
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 effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No.(DOT)	: 1993
DOT NA no.	UN1993
14.2. UN proper shipping name	
Transport document description	: UN1993 Flammable liquids, n.o.s. (DIISOPROPYLETHOXYSILANE), 3, III
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	(DIISOPROPYLETHOXYSILANE)
Class (DOT) Recking group (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 : III - Minor Danger
Packing group (DOT) Hazard labels (DOT)	: 3 - Flammable liquid
	3
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Symbols	: G - Identifies PSN requiring a technical name
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
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 passenger vessel
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
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DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

SECTION 15: Regulatory information	
15.1. US Federal regulations	
DIISOPROPYLETHOXYSILANE (90633-16-2)	
TSCA Exemption/Exclusion	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

Diisopropylethoxysilane (90633-16-2)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
4E.0. Internetional negatives	
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 No additional information available

SECTION 16: Other information

Full text of H-phrases::	
H226	Flammable liquid and vapor
H319	Causes serious eye irritation
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; GHS: The Globally Harmonized System of Classification and Labelling.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
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 hazardous polymerization in the absence of inhibitors.

Prepared by safety and environmental affairs.

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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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