

Safety Data Sheet SID3258.0 Date of issue: 09/17/2015 Version: 1.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: DI-t-BUTYLMETHYLSILANE		
Product code	: SID3258.0		
Formula	: C9H22Si		
Synonyms	: METHYLDI-t-BUTYLSILANE		
Chemical family	: ORGANOHYDRIDOSILANE		
-	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			
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8			
nfo@gelest.com - <u>www.gelest.com</u>			
1.4.Emergency telephone numberEmergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)		
SECTION 2: Hazards identification			
2.1. Classification of the substance	or mixture		
Classification (GHS-US)			
Flam. Liq. 3 H226			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS02		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor		
Precautionary statements (GHS-US)	 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 P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower 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. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		

No data available

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SECTION 3: Composition/inform	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent	-	
lame	: DI-t-BUTYLMETHYLSILAN	IE	
CAS No	: 56310-20-4		
Name	Product identifier	%	· · · · ·
Di-t-butylmethylsilane	(CAS No) 56310-20-4		5 - Flam. Liq. 3, H226 00
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measure			
First-aid measures general	medical advice immediatel	(show the label where poss	ccident or if you feel unwell, seek sible). If possible show this sheet; if no erned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air unwell, seek medical advic		n comfortable for breathing. If you feel
irst-aid measures after skin contact	: Wash with plenty of soap a		
First-aid measures after eye contact		roughly with water for at leas ntinue rinsing. Get medical a	st 15 minutes. Remove contact lenses advice/attention.
irst-aid measures after ingestion	: Never give anything by mo	uth to an unconscious perso	n. Get medical advice/attention.
.2. Most important symptoms and	ffects, both acute and delayed		
ymptoms/injuries after inhalation	: May cause irritation to the	respiratory tract.	
symptoms/injuries after skin contact	: May cause skin irritation.		
ymptoms/injuries after eye contact	: May cause eye irritation.		
ymptoms/injuries after ingestion	: No information available.		
.3. Indication of any immediate me	lical attention and special treatm	ent needed	
SECTION 5: Firefighting measure	s		
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Water fog. Fo	am. Carbon dioxide. Dry che	emical.
Insuitable extinguishing media	: Do not use straight stream		
.2. Special hazards arising from th			
Fire hazard	: Flammable liquid and vapo	r. Irritating fumes and organi ated temperatures or open fl	ic acid vapors may develop when lame.
.3. Advice for firefighters			
irefighting instructions	: Use water spray or fog for chemical fire.	cooling exposed containers.	Exercise caution when fighting any
Protection during firefighting	: Do not enter fire area witho	out proper protective equipm act and do not breathe vapo	ent, including respiratory protection. r and mist.
SECTION 6: Accidental release n	easures		
.1. Personal precautions, protectiv	equipment and emergency proc	cedures	
General measures	: Eliminate ignition sources.	Use special care to avoid sta	atic electric charges.
5.1.1. For non-emergency personnel			
Protective equipment	: Wear protective equipment		
mergency procedures	: Evacuate unnecessary per	sonnel.	
.1.2. For emergency responders			
Protective equipment			e equipment. Equip cleanup crew with n 8: "Exposure controls/personal
.2. Environmental precautions			
Prevent entry to sewers and public waters.	lotify authorities if liquid enters sew	ers or public waters.	
.3. Methods and material for conta	nment and cleaning up		
or containment	• •	s or absorbents to prevent n	nigration and entry into sewers or

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Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and persona	al protection.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: 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. Provide good ventilation i process area to prevent accumulation of vapors. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only non-sparking tools.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, include	ding any incompatibilities	
Technical measures	: Use explosion-proof electrical equipment.	
Storage conditions	: Keep container tightly closed. Keep in a cool place.	
Incompatible materials	: Alkalis. Metal salts. Precious metals. Oxidizing agent.	
Storage area	: Store in a well-ventilated place. Store away from heat.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/per	sonal 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	
	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	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 158.36 g/mol	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
Refractive index	: 1.4293	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: ~1	
Melting point	: No data available	
Freezing point	: < 0 °C	
Boiling point	: 155 °C	
Flash point	: 30 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Flammable liquid and vapor	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: >1	
Relative density	: 0.758	
VOC content		

Solubility

VOC content

: Insoluble in water.

: > 95 %

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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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in sealed containers under dry inert atmosphere.

10.3. Possibility of hazardous reactions

The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Alkalis. Metal salts. Precious metals. Oxidizing agent.

10.6. Hazardous decomposition products

Carbon monoxide. Formaldehyde. Hydrogen. Organic acid vapors. Silicon dioxide.

SECTION 11: Toxicological information Information on toxicological effects 11.1. Acute toxicity Not classified Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization Not classified Germ cell mutagenicity ۰. Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified : Not classified Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified 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 : May cause eye irritation. : No information available. Symptoms/injuries after ingestion

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

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Effect on the global warming	: No known ecological damage caused by this product.	
SECTION 13: Disposal consideration	S	
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.	
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		
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (DI-t-BUTYLMETHYLSILANE)	
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Hazard labels (DOT)	: 3 - Flammable liquid	
	3	
DOT Symbols	: G - Identifies PSN requiring a technical name	
Packing group (DOT)	: III - Minor Danger	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
14.3. Additional information		
Other information	: IMO IMDG- code: 3.2.	
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	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L	
SECTION 15: Regulatory information		
15.1. US Federal regulations		
DI-t-BUTYLMETHYLSILANE (56310-20-4)		
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.	
Di-t-butylmethylsilane (56310-20-4)		
Not listed on the United States TSCA (Toxic Sul	ostances Control Act) inventory	
15.2. International regulations		
No additional information available		

15.3. US State regulations

DI-t-BUTYLMETHYLSILANE(56310-20-4)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No

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DI-t-BUTYLMETHYLSILANE(56310-20-4)					
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Propositior Toxicity - Male	n 65 - Reproductive	No			
Di-t-butylmethylsilane (56310-20-4)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		

SECTION 16: Other information			
Concentr millimete threshold Health; I/ Program Registrat Europear	eviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal entration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: heters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: hold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and th; IARC: International Agency for Research on Cancer; NTP: National Toxicology ram; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service stration Number; EC No.: European Commission Registration Number; EC Index No.: pean Commission Index Number; OECD: The Organisation for Economic Co-operation Development.		
Full text of H-phrases::			
Flam. Liq. 3	Flammable liquids Category 3		
H226	Flammable liquid and vapor		
HMIS III Rating Health : 2 Moderate Hazard - Temporary or minor injury may occur Flammability : 3 Serious Hazard Physical : 1 Slight Hazard			
Prepared by safety and environmental affairs.			
Date of issue: 09/17/2015 Version: 1.0			
SDS US (GHS HazCom 2012) - Custom			
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 20	012 / Rules and Regulations		

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