

DIVINYLDICHLOROSILANE, 90%

Safety Data Sheet SID4600.0 Date of issue: 10/01/2015 Version: 1.0

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: DIVINYLDICHLOROSILANE, 90%
Product code	: SID4600.0
Formula	: C4H6Cl2Si
Synonyms	: DICHLORODIETHENYLSILANE
Chemical family	: ORGANOCHLOROSILANE
1.2. Relevant identified uses of the s	ubstance 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 safe	ety data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8: info@gelest.com	:00 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: Hazards identification	n
2.1. Classification of the substance of	
GHS-US classification	
Flam. Liq. 2 H225 Skin Corr. 1B H314 Eye Dam. 1 H318	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	HS02 GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapor H314 - Causes severe skin burns and eye damage
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 P260 - Do not breathe vapors P264 - Wash hands thoroughly after handling P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower 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 P310 - Immediately call a doctor P321 - Specific treatment (see first aid instructions on this label) P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use water spray, alcohol resistant foam, carbon dioxide, dry
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	chemical to extinguish P403+P235 - Keep in P405 - Store locked up P501 - Dispose of con	a cool place	d waste dispos	al facility.
2.3. Other hazards Other hazards not contributing to the	· Hydrogen chloride ma	y be formed by reaction w	with water and	moisture in air. The US OSHA
classification	PEL (TWA) for hydrog			
2.4. Unknown acute toxicity (GHS US)			
No data available				
SECTION 3: Composition/Informa	tion on ingredients			
3.1. Substance				
Substance type	: Multi-constituent			
Name	: DIVINYLDICHLOROS	ILANE, 90%		
CAS No	: 1745-72-8			
EC no	: 217-118-5			
Name	Product identi		%	GHS-US classification
Trivinylchlorosilane	(CAS No) 1871-21	-2	0 - 100	Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318
Divinyldichlorosilane	(CAS No) 1745-72	-8	90 - 100	Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318
				Lyo Dum. 1, Horo
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: Remove contaminated	liately (show the label whe		t or if you feel unwell, seek f possible show this sheet; if not
First-aid measures after inhalation		h air and keep at rest in a	position comfo	ortable for breathing. If you feel
First-aid measures after skin contact	: Wash with plenty of sc	pap and water. Get immed	diate medical a	dvice/attention.
First-aid measures after eye contact		s thoroughly with water fo o. Continue rinsing. Get in		inutes. Remove contact lenses, if cal advice/attention.
		the state of the second state state of the s		
First-aid measures after ingestion	: Never give anything by feel unwell.	y mouth to an unconsciou	is person. Get	medical advice/attention if you
-	feel unwell.		is person. Get	
4.2. Most important symptoms and e	feel unwell.	ed	is person. Get	
4.2. Most important symptoms and e Symptoms/injuries Symptoms/injuries after inhalation	feel unwell. fects, both acute and delay : Causes severe skin bu : May cause irritation to	ed urns and eye damage. the respiratory tract.	is person. Get	
4.2. Most important symptoms and e Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact	feel unwell. fects, both acute and delay : Causes severe skin bu : May cause irritation to : Causes (severe) skin b	ed urns and eye damage. the respiratory tract. burns.	is person. Get	
4.2. Most important symptoms and e Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	feel unwell. fects, both acute and delay : Causes severe skin bu : May cause irritation to : Causes (severe) skin b : Causes serious eye da	ed urns and eye damage. the respiratory tract. burns. amage.	is person. Get	
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 4.2. Most important symptoms and e Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion 4.3. Indication of any immediate med Note to physician- Eyes: If pain persists, reper 	feel unwell. fects, both acute and delay : Causes severe skin bu : May cause irritation to : Causes (severe) skin b : Causes serious eye da : May be harmful if swal ical attention and special tra at washing for 15 minutes or	ed urns and eye damage. the respiratory tract. burns. amage. llowed. eatment needed		medical advice/attention if you
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 4.2. Most important symptoms and e Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion 4.3. Indication of any immediate med Note to physician- Eyes: If pain persists, repe Benoxinate solution (0.4%) in the affected ey SECTION 5: Firefighting measures 5.1. Extinguishing media 	feel unwell. fects, both acute and delay : Causes severe skin bu : May cause irritation to : Causes (severe) skin b : Causes (severe) skin b : Causes serious eye da : May be harmful if swal ical attention and special tro at washing for 15 minutes or b s	ed urns and eye damage. the respiratory tract. burns. amage. llowed. eatment needed until pH of eye returns to	normal. If grea	medical advice/attention if you t pain persists, place one (1) drop

Fire hazard	: Highly flammable liquid and vapor. Irritating fumes of hydrochloric acid and organic acid vapors may develop when material is exposed to water or open flame.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: Do not direct water into an unignited spill. Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting	: 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 r	
	ve equipment and emergency procedures
General measures	: Eliminate every possible source of ignition. 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.
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 authorities if liquid enters sewers or public waters.
6.3. Methods and material for conta	inment and cleaning up
For containment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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 pers	sonal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	: Handle empty containers with care because residual vapors are flammable. Keep away from
Additional hazards when processed	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. Take precautionary measures against static discharge. Provide good ventilation in process area to prevent accumulation of vapors. 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, inc	cluding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proceeder electrical equipment.
Storage conditions	: Keep container tightly closed. Keep in a cool place. Store locked up.
Incompatible materials	: Acids. Alcohols. 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/	personal 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 l available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles or face shield. 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 combination organic vapor/acid gas (yellow cartridge) respirator.
SECTION 9: Physical and chemi	
9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 153.09 g/mol
Color	: Straw to amber.

Odor	: Acrid. Similar to hydrogen chloride.
Odor threshold	: No data available
Refractive index	: 1.4509
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: <0°C
Boiling point	: 118 - 119 °C
Flash point	: 15 ℃
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: No data available
Relative vapor density at 20 °C	: >4
Relative density	: 1.0813
VOC content	: 100 %
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
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1.ReactivityNo additional information available	
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Symptoms/injuries after skin contact	: Causes (severe) skin burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
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 ecological damage caused by this product.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: 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)	: 2985
DOT NA no.	UN2985
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Chlorosilanes, flammable, corrosive, n.o.s.
	(DIVINYLDICHLOROSILANE)
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	8 - Corrosive
	3 8
Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: none : 206
DOT Packaging Non Bulk (49 CFR 173.xxx)	
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
14.3. Additional information Other information	· No supplementary information available
Other Information	: No supplementary information available.
Trepoport bu cor	
Transport by sea	· P (i) The meterial may be stayed "an deak" or "under deak" on a sorre yearsel and an a
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25
	passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on
	passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living guarters"
	. To otom order or inviting quartere

DIVINYLDICHLOROSILANE, 90%

Safety Data Sheet

Air transport

DOT Quantity Limitations Passenger aircraft/rail : Forbidden (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 5 L CFR 175.75)

SECTION 15: Regulatory information 15.1. US Federal regulations	
DIVINYLDICHLOROSILANE, 90% (1745-72	-8)
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.
Trivinylchlorosilane (1871-21-2)	
Not listed on the United States TSCA (Toxic	Substances Control Act) inventory
Divinyldichlorosilane (1745-72-8)	
Not listed on the United States TSCA (Toxic	Substances Control Act) inventory
15.2. International regulations	

Divinyldichlorosilane (1745-72-8)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations

DIVINYLDICHLOROSILANI	E, 90%(1745-72-8)			
U.S California - Propositio	n 65 - Carcinogens List	No		
U.S California - Propositio Toxicity	n 65 - Developmental	No		
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No		
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No		
Trivinylchlorosilane (1871-	·21-2)			
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	Non-significant risk level (NSRL)
No	No	No	No	
Divinyldichlorosilane (174	5-72-8)		• •	
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	Non-significant risk level (NSRL)
No	No	No	No	

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::

1	
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
H225	Highly flammable liquid and vapor

DIVINYLDICHLOROSILANE, 90%

Safety Data Sheet

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

HMIS III Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability Physical

- : 4 Severe Hazard
- : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 10/01/2015 Version: 1.0

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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