

# Safety Data Sheet SID4553.0

Issue date: 01/22/2015 Revision date: 08/24/2021 Version: 1.1

## **SECTION 1: Identification**

#### 1.1. Identification

Product name : DIPHENYLMETHYLETHOXYSILANE

Product code : SID4553.0
Product form : Substance
Physical state : Liquid
Formula : C15H18OSi

Synonyms : DIPHENYLMETHYLSILYLETHOXIDE; ETHOXYMETHYLDIPHENYLSILANE

Chemical family : ORGANOETHOXYSILANE

# 1.2. Recommended use and restrictions on use

Recommended use : Chemical intermediate

### 1.3. Supplier

#### **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

USA

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)

# **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

### **GHS US classification**

Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation

Full text of H statements : see section 16

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P264 - Wash hands thoroughly after handling.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention.

# 2.3. Hazards not otherwise classified (HNOC)

Other hazards which do not result in

classification

: The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin 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)

# SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name : DIPHENYLMETHYLETHOXYSILANE

CAS-No. : 1825-59-8

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Name	Product identifier	%	GHS US classification
Diphenylmethylethoxysilane	(CAS-No.) 1825-59-8	> 95	Eye Irrit. 2A, H319
Ethanol	(CAS-No.) 64-17-5		Flam. Liq. 2, H225 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

### **Mixtures**

Not applicable

### **SECTION 4: First-aid measures**

### **Description of first aid measures**

: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek First-aid measures general

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.

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 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 effects (acute and delayed)

: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Symptoms/effects after inhalation

Symptoms/effects after skin contact : May cause skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects 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.

### Immediate medical attention and special treatment, if necessary

No additional information available

# **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media 5.1.

: Water spray. Foam. Carbon dioxide. Dry chemical. Suitable extinguishing media

# Specific hazards arising from the chemical

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

## Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

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 measures**

## Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

# **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## Methods and material for containment and cleaning up

: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or Methods for cleaning up

shovel spills into appropriate container for disposal.

# Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

# **Precautions for safe handling**

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in

process area to prevent accumulation of vapors.

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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, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Moisture. Water.

Storage area : Store in a well-ventilated place. Store away from heat.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Ethanol (64-17-5)			
ACGIH	ACGIH OEL STEL [ppm]	1000 ppm	
OSHA	OSHA PEL (TWA) [1]	1900 mg/m³	
OSHA	OSHA PEL (TWA) [2]	1000 ppm	
IDLH	IDLH [ppm]	3300 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA)	1900 mg/m³	
NIOSH	NIOSH REL TWA [ppm]	1000 ppm	

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

### 8.3. Individual protection measures/Personal protective equipment

### 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:

NIOSH-certified organic vapor (black cartridge) respirator.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Clear liquid.Molecular mass: 242.39 g/molColor: Straw.Odor: Mild.

Odor threshold : No data available

Refractive index : 1.544

pH : No data available

Relative evaporation rate (butyl acetate=1) : < 1

Melting point : No data available

Freezing point : <-27 °C

Boiling point : 100 - 102 °C @ 0.3 mm Hg

Flash point : 165 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 3 mm Hg @ 125°C

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Relative vapor density at 20 °C : > 1
Relative density : 1.018

Solubility : Insoluble in water. Reacts with water.

Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : 6.5 cSt @ 25°C Viscosity, dynamic : No data available Explosive properties : No data available Oxidizing properties : No data available Explosion limits : No data available

### 9.2. Other information

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable in sealed containers.

### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating ethanol.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame.

### 10.5. Incompatible materials

Moisture. Water.

# 10.6. Hazardous decomposition products

Organic acid vapors. Ethanol.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

(1825-59-8)			
LD50 oral rat	12300 μl/kg		
Ethanol (64-17-5)			
LD50 oral rat	7060 mg/kg		
LC50 Inhalation - Rat	124.7 mg/l/4h		
LC50 Inhalation - Rat [ppm]	20000 ppm 10 hrs.		
LDLo oral rat	1400 mg/kg (Human)		
ATE US (oral)	7060 mg/kg body weight		
ATE US (vapors)	124.7 mg/l/4h		
ATE US (dust, mist)	124.7 mg/l/4h		

Skin corrosion/irritation : Not classified

Primary Irritation index (skin): 0.19

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Ethanol (64-17-5)		
IARC group	1 - Carcinogenic to humans	
In OSHA Hazard Communication Carcinogen list	Yes	

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

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Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache.

Nausea.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects 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

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ethanol (64-17-5)		
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
LC50 - Fish [2]	> 13400 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Ethanol (64-17-5)	
Partition coefficient n-octanol/water (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 the ozone layer : No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Product/Packaging disposal recommendations : May be incinerated. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

# 14.1. UN number

Not regulated for transport.

# 14.2. UN proper shipping name

# 14.3. Additional information

Other information : No supplementary information available.

Transport by sea

Air transport

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

1825-59-8)		
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.	

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### Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Diphenylmethylethoxysilane (1825-59-8)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

Ethanol (64-17-5)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification  Class B Division 2 - Flammable Liquid  Class D Division 2 - Flammable Liquid		

### **EU-Regulations**

### Ethanol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

# Diphenylmethylethoxysilane (1825-59-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### **National regulations**

### Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

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)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

# Diphenylmethylethoxysilane (1825-59-8)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### 15.3. US State regulations



This product can expose you to Ethanol, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ethanol (64-17-5)					
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 significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	No	No		

# Ethanol (64-17-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **SECTION 16: Other information**

### Full text of H-phrases::

H225	Highly 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; APF: Assigned Protection Factor.

## **Hazard Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

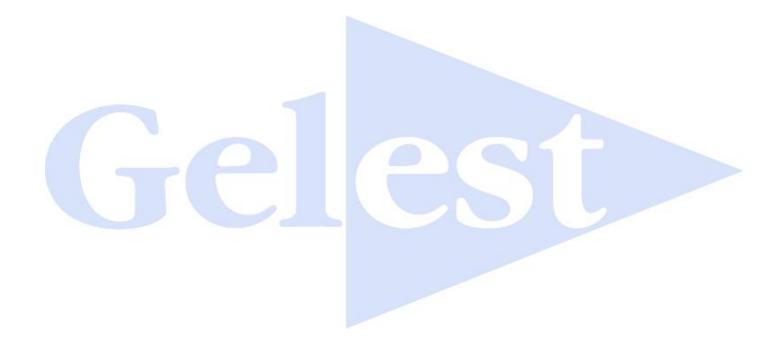
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SDS US (GHS HazCom 2012) - Custom

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

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