

Material Safety Data Sheet

Date Printed: 03/10/2007 Date Updated: 02/01/2006 Version 1.40

Section 1 - Product and Company Information

Product Name Product Number

Company

Fax:

Diethoxydimethylsilane, 97%

175595 Brand

Aldrich Chemical

Street Address City, State, Zip, Country **Technical Phone:**

- Sigma-Aldrich -3050 Spruce Street

SAINT LOUIS, MO 63103 US

800-325-5832 800-325-5052 **Emergency Phone:**

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

Annex I Index EC no

DIETHOXYDIMETHYLSILANE

78-62-6

No 201-127-6 Number

Formula Synonyms

C6H16O2Si Diethoxydimethylsilane, Dimethyl-diethoxysilan (Czech), Dimethylsilicondiethoxide, KBE 22

Section 3 - Hazards Identification

Emergency Overview

Flammable (USA) Highly Flammable (EU). Irritant. Irritating to eyes, respiratory system and skin-

HMIS Rating

Health: 2

Flammability: 3

Reactivity: 1

NFPA Rating

Health: 2

Flammability: 3

Reactivity: 1

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flammable Hazards:

Explosion Hazards

Vapor may travel considerable distance to source of ignition and flash back.

Container explosion may occur under fire conditions,

Flash Point:

42.8 °F

6°C

Autoignition Temp:

N/A

Flammability:

Yes

Extinguishing Media

Sultable

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Flammable liquid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignilion.

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Keep container closed. Keep away from heat, sparks, and open flame.

Special Requirements

Moisture sensitive

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

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Hand

Compatible chemical-resistant gloves.

Chemical safety goggles,

General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance

Color Colorless Form

Clear liquid

Molecular Weight:

148.28 AMU

0.84 g/cm3

BP/BP Range 111 - 113 °C

MP/MP Range Freezing Point Vapor Pressure N/A N/A N/A N/A N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Vapor Density Saturated Vapor Conc. SG/Density

Bulk Density Odor Threshold

Volatile% **VOC Content** Water Content

Solvent Content **Evaporation Rate** Viscosity Partition Coefficient

N/A Decomposition Temp. N/A Flash Point °F 42.8 °F Flash Point °C 6°C

Method: closed cup Method: closed cup

Explosion Limits N/A

Flammability Autoignition Temp

N/A N/A Refractive Index 1.383 N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Solubility

Conditions of Instability

May decompose on exposure to moist air or water. Materials to Avoid

Strong oxidizing agents, Strong acids...

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Silicon oxide.

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes eye irritation.

Inhalation

May be harmful if inhaled, Material is irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

Prolonged exposure can cause: Nausea, dizziness, and headache. Gastrointestinal disturbances. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: VV3590000

Toxicity Data

Oral - Rat: 9280 mg/kg (LD50)

Inhalation - Rat: 20,000 mg/m3 (LC50)

Irritation Data

Skin - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

Eyes - Rabbit: 83 mg

Eves - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Flammable liquids, n.o.s.

UN#: 1993 Class: 3

Packing Group: Packing Group II Hazard Label: Flammable liquid

PIH: Not PIH

Proper Shipping Name: Flammable liquid, n.o.s.

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IATA UN Number: 1993 Hazard Class: 3 Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: F Xi

Indication of Danger

Highly Flammable, Irritant,

Risk Statements R: 11 36/38

Highly flammable, Irritating to eyes and skin,

Safety Statements

S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger

Flammable (USA) Highly Flammable (EU); Irritant,

Risk Statements

Irritating to eyes, respiratory system and skin,

Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes ND\$L: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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