

# **SAFETY DATA SHEET**

Version 8.6 Revision Date 03/07/2024 Print Date 03/08/2024

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifiers**

	Brand CAS-No.	:	Aldrich 928-65-4
		:	
1.2	2 Relevant identified uses of the substance or mixture and uses advised ag		of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

### **1.3** Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax		+1 314 771-5765 +1 800 325-5052

#### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Aldrich - 446963

Page 1 of 10



Pictogram	
Signal Word	Danger
Hazard Statements H227 H301 + H311 + H331 H314	Combustible liquid. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage.
Precautionary Statements P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P261 P264	Avoid breathing mist or vapors. Wash skin thoroughly after handling.
P270 P271 P280	Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face
P301 + P310 + P330	protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331 P303 + P361 + P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P362 P370 + P378	Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233 P403 + P235 P405 P501	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** Reacts violently with water.

# **SECTION 3:** Composition/information on ingredients

3.1	<b>Substances</b> Synonyms	:	Hexyltrichlorosilane		
	Formula Molecular weight CAS-No. EC-No.		C <sub>6</sub> H <sub>13</sub> Cl <sub>3</sub> Si 219.61 g/mol 928-65-4 213-178-1		
	Component			Classification	Concentration

Aldrich - 446963

Page 2 of 10



Frichlorohexylsilane		
	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; H227, H301, H331, H311, H314, H318	

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

### **General advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

# If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

# In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

# In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

### If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

**Suitable extinguishing media** Carbon dioxide (CO2) Dry powder

### Unsuitable extinguishing media Water Foam

Aldrich - 446963

Page 3 of 10



# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Hydrogen chloride gas silicon oxides Combustible. Vapors are heavier than air and may spread along floors. May not get in touch with: Water Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6:** Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

**6.4** Reference to other sections For disposal see section 13.

# SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep workplace dry. Do not allow product to come into contact with water.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Aldrich - 446963

Page 4 of 10



For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Never allow product to get in contact with water during storage.

#### Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

#### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

### **Personal protective equipment**

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

# **Skin protection**

required

# **Body Protection**

protective clothing

# **Respiratory protection**

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains.

Aldrich - 446963

Page 5 of 10



## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties 9.1 a) Appearance Form: clear, liquid Color: colorless No data available b) Odor c) Odor Threshold No data available d) pH No data available No data available e) Melting point/freezing point Initial boiling point 191 - 192 °C 376 - 378 °F - lit. f) and boiling range 84 °C (183 °F) - closed cup g) Flash point No data available h) Evaporation rate Flammability (solid, No data available i) gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapor pressure 1) Vapor density No data available m) Density 1.107 g/cm3 at 25 °C (77 °F) - lit. Relative density No data available No data available n) Water solubility No data available o) Partition coefficient: n-octanol/water No data available p) Autoignition temperature No data available q) Decomposition temperature No data available r) Viscosity s) Explosive properties No data available Oxidizing properties No data available t)

# 9.2 Other safety information No data available

Aldrich - 446963

Page 6 of 10



# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity** Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

- **10.2 Chemical stability** sensitive to moisture
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** Strong heating. Moisture.
- **10.5 Incompatible materials** Strong oxidizing agents, Water, Strong bases
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute toxicity

Oral: No data available LD50 Oral - 100 mg/kg LC50 Inhalation - 4 h - 3 mg/l - vapor

(Acute toxicity estimate) LD50 Dermal - 300 mg/kg No data available

### Skin corrosion/irritation

Remarks: No data available

#### Serious eye damage/eye irritation Remarks: No data available

#### **Respiratory or skin sensitization** No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Aldrich - 446963

Page 7 of 10



# **Reproductive toxicity**

No data available No data available

#### Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

# **11.2 Additional Information**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

# **SECTION 12: Ecological information**

# 12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Endocrine disrupting properties** No data available
- 12.7 Other adverse effects No data available

# SECTION 13: Disposal considerations

# **13.1 Waste treatment methods**

### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Aldrich - 446963

Page 8 of 10



#### **SECTION 14: Transport information**

#### DOT (US)

UN number: 1784 Class: 8 Packing group: II Proper shipping name: Hexyltrichlorosilane Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

UN number: 1784 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: HEXYLTRICHLOROSILANE

#### ΙΑΤΑ

UN number: 1784 Class: 8 Packing group: II Proper shipping name: Hexyltrichlorosilane IATA Passenger: Not permitted for transport

# **SECTION 15: Regulatory information**

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Aldrich - 446963

Page 9 of 10



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Aldrich - 446963

Page 10 of 10

