

# **SAFETY DATA SHEET**

Version 6.6 Revision Date 09/08/2024 Print Date 09/09/2024

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

#### 1.1 Product identifiers

|     | Product name   | : | 3-(Triethoxysilyl)propionitrile   |
|-----|--|---|---|
|     | Product Number<br>Brand<br>CAS-No.   | : | 125377<br>Aldrich<br>919-31-3   |
| 1.2 | .2 Relevant identified uses of the substance or mixture and uses advised against |   |   |
|     | Identified uses  | : | Laboratory chemicals, Synthesis of substances   |
|     | Uses advised against   | : | The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma. |
| 1.3 | Details of the supplier of the safety data sheet                                 |   |   |
|     | C  |   |   |

# 1...

| Company             | : | Sigma-Aldrich Inc.<br>3050 SPRUCE ST<br>ST. LOUIS MO 63103<br>UNITED STATES |
|---------------------|---|---|
| Telephone<br>Fax    |   | +1 314 771-5765<br>+1 800 325-5052  |
| Emergency telephone |   |   |
| Emergency Phone #   | : | 800-424-9300 CHEMTREC (USA) +1-703-<br>527-3887 CHEMTREC (International) 24 |

#### **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

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

Hours/day; 7 Days/week

#### 2.2 GHS Label elements, including precautionary statements

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| Pictogram                        | none   |
|----------------------------------|--|
| Signal Word                      | Warning  |
| Hazard Statements<br>H227        | Combustible liquid.  |
| Precautionary Statements<br>P210 | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  |
| P280                             | Wear protective gloves/ eye protection/ face protection.   |
| P370 + P378                      | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.                                   |
| P403 + P235<br>P501              | Store in a well-ventilated place. Keep cool.<br>Dispose of contents/ container to an approved waste disposal<br>plant. |

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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

| 3.1 | <b>Substances</b><br>Synonyms                    | : | (2-Cyanoethyl)triethoxysilane  |
|-----|--|---|--|
|     | Formula<br>Molecular weight<br>CAS-No.<br>EC-No. | : | C <sub>9</sub> H <sub>19</sub> NO <sub>3</sub> Si<br>217.34 g/mol<br>919-31-3<br>213-050-5 |

No components need to be disclosed according to the applicable regulations.

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

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

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

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

#### 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

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

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

#### 5.1 Extinguishing media

Suitable extinguishing media Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) silicon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

#### **Advice for firefighters** 5.3

In the event of fire, wear self-contained breathing apparatus.

#### 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. 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 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.

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#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# 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**

Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions Tightly closed.

Store under inert gas. Moisture sensitive.

# Storage class

Storage class (TRGS 510): 10: Combustible liquids

#### Specific end use(s) 7.3

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

Change contaminated clothing. Wash hands 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). Safety glasses

# **Skin protection**

not required

# **Respiratory protection**

Not required; except in case of aerosol formation.

# **Control of environmental exposure**

Do not let product enter drains.

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# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

| a)  | Appearance   | Form: liquid<br>Color: colorless           |
|-----|--|--|
| b)  | Odor   | No data available                          |
| c)  | Odor Threshold                                     | No data available                          |
| d)  | рН   | No data available                          |
| e)  | Melting<br>point/freezing point                    | No data available                          |
| f)  | Initial boiling point<br>and boiling range         | 224 °C 435 °F - lit.                       |
| g)  | Flash point  | 70.5 °C (158.9 °F) - closed cup - ISO 3679 |
| h)  | Evaporation rate                                   | No data available                          |
| i)  | Flammability (solid,<br>gas)                       | No data available                          |
| j)  | Upper/lower<br>flammability or<br>explosive limits | No data available                          |
| k)  | Vapor pressure                                     | No data available                          |
| I)  | Vapor density                                      | No data available                          |
| m)  | Density  | 0.979 g/mL at 25 °C (77 °F) - lit.         |
|     | Relative density                                   | No data available                          |
| n)  | Water solubility                                   | No data available                          |
| 0)  | Partition coefficient:<br>n-octanol/water          | No data available                          |
| p)  | Autoignition<br>temperature                        | 254 °C (489 °F) at 1,013 hPa               |
| q)  | Decomposition<br>temperature                       | No data available                          |
| r)  | Viscosity  | No data available                          |
| s)  | Explosive properties                               | No data available                          |
| t)  | Oxidizing properties                               | none                                       |
| Oth | ner safety informatio                              | 'n   |

# 9.2 Other safety information No data available

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#### **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**

The product is chemically stable under standard ambient conditions (room temperature) .

### **10.3** Possibility of hazardous reactions

Violent reactions possible with: strong oxidising agents Strong acids Bases

### 10.4 Conditions to avoid

Avoid moisture. Strong heating.

**10.5 Incompatible materials** No data available

# **10.6 Hazardous decomposition products**

In the event of fire: see section  ${\bf 5}$ 

### SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 5,630 mg/kg Remarks: (RTECS) Inhalation: No data available LD50 Dermal - Rabbit - 5,795 mg/kg Remarks: (RTECS)

### Skin corrosion/irritation

Skin - Rabbit Result: slight irritation - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: slight irritation (OECD Test Guideline 405)

#### **Respiratory or skin sensitization**

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Aldrich - 125377

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Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative

#### 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.

#### **Reproductive toxicity**

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**

#### RTECS: VV2750000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

| -   |  |
|---|--|
| Toxicity to fish  | flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - ><br>110 mg/l - 96 h<br>(OECD Test Guideline 203)         |
| Toxicity to daphnia<br>and other aquatic<br>invertebrates | flow-through test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)                        |
| Toxicity to algae   | static test ErC50 - Raphidocelis subcapitata (freshwater green alga) -<br>> 3.6 mg/l - 72 h<br>(OECD Test Guideline 201) |
|   | static test NOEC - Raphidocelis subcapitata (freshwater green alga) -<br>1.8 mg/l - 72 h<br>(OECD Test Guideline 201)    |
| 405077  |  |

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Toxicity to bacteria

- 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.

# **SECTION 14:** Transport information

#### DOT (US)

NA-Number: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (3-(Triethoxysilyl)propiononitrile) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

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# SECTION 15: Regulatory information

# **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

| SARA 311/312<br>Hazards | : | Acute Health Hazard   |
|-------------------------|---|---|
| SARA 313                | : | 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. |

#### US State Regulations

#### Massachusetts Right To Know

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

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### The ingredients of this product are reported in the following inventories:

: All substances listed as active on the TSCA inventory

### **TSCA** list

TSCA

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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# **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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