

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-02-05  
Print Date: 2024-02-12

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

### 1.1 Product identifiers

Product name : Tetrakis(dimethylamido)silane  
Product Number : T357379  
Brand : aladdin  
CAS-No. : 1624-01-7

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

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

Company : Shanghai Aladdin Biochemical Tech Co., Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute toxicity - Oral [Category 4]

Acute toxicity - Dermal [Category 4]

Skin corrosion/irritation [Category 1] [Sub-category B]

Serious eye damage/eye irritation [Category 1]

Substances or mixtures which, in contact with water, emit [Category 2]

flammable gases [Category 3]

Flammable liquids

### 2.2 GHS Label elements, including precautionary statements

|                            |  |
|----------------------------|--|
| Pictogram                  |    |
| Signal word                | Danger   |
| Hazard statement(s)        |  |
| H225                       | Highly Flammable liquid and vapor  |
| Precautionary statement(s) |  |
| P210                       | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                  |
| P233                       | Keep container tightly closed.   |
| P240                       | Ground/bond container and receiving equipment.   |
| P241                       | Use explosion-proof [electrical/ventilating/lighting/...] equipment.   |
| P242                       | Use only non-sparking tools.   |
| P243                       | Take precautionary measures against static discharge.  |
| P260                       | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P261                       | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P264                       | Wash hands [and ...] thoroughly after handling.  |
| P270                       | Do not eat, drink or smoke when using this product.  |
| P271                       | Use only outdoors or in a well-ventilated area.  |
| P280                       | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P231+P232                  | Handle under inert gas/... Protect from moisture.  |
| P302                       | IF ON SKIN:  |
| P330                       | Rinse mouth.   |
| P361                       | Take off immediately all contaminated clothing.  |
| P363                       | Wash contaminated clothing before reuse.   |
| P301+P312                  | IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.  |
| P301+P330+P331             | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P302+P352                  | IF ON SKIN: wash with plenty of water.   |
| P303+P361+P353             | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or 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. |
| P362+P364                  | Take off contaminated clothing and wash it before reuse.   |
| P370+P378                  | In case of fire: Use ... to extinguish.  |
| P405                       | Store locked up.   |
| P402+P404                  | Store in a dry place. Store in a closed container.   |
| P403+P233                  | Store in a well-ventilated place. Keep container tightly closed.   |
| P403+P235                  | Store in a well-ventilated place. Keep cool.   |
| P501                       | Dispose of contents/container to an approved waste disposal plant.   |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |  |
|------------------|--|
| Synonyms         | : no data available                                |
| Formula          | : C <sub>8</sub> H <sub>24</sub> N <sub>4</sub> Si |
| Molecular weight | : 204.39   |
| CAS No.          | : 1624-01-7  |
| EC-NO.           | : 216-611-2  |

| Component                     | Classification    | Concentration |
|-------------------------------|-------------------|---------------|
| Tetrakis(dimethylamido)silane | no data available | 95%           |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

#### If inhaled

Move to fresh air. If breathing is irregular or stops, see a doctor. Perform artificial respiration. Avoid direct contact with skin.

#### In case of skin contact

If necessary, consult a doctor. Wash immediately with soap and plenty of water, and remove all contaminated clothing and shoes at the same time. Wash contaminated clothing before reuse. Rinse immediately with plenty of water. If skin irritation persists, call your doctor

#### In case of eye contact

Wash immediately with plenty of water. After the initial rinse, remove the contact lenses and continue rinsing for at least 15 minutes. Keep your eyes open while flushing. If symptoms persist, call your doctor.

#### If swallowed

Rinse your mouth. Drink plenty of water. If symptoms persist, call your doctor. Do not induce vomiting.

### 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

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### 5.1 Extinguishing media

Suitable extinguishing media  
Use CO<sub>2</sub>, dry chemical, or foam.  
Unsuitable extinguishing media  
no data available

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

no data available

### 5.3 Advice for firefighters

Wear self-contained breathing and full protective equipment

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

### 6.3 Methods and materials for containment and cleaning up

If safe, prevent further leakage or spillage. Cover spilled liquid with sand, soil or other non combustible absorbent material. Cover the powder spillage with plastic cloth or waterproof cloth to minimize diffusion. Pick up and transfer to a properly labeled container. Soak in inert absorbent material.

### 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at 4 °C.

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                   |
|--|-------------------|
| a) Appearance                              | no data available |
| b) Odour                                   | no data available |
| c) Odour Threshold                         | no data available |
| d) pH                                      | no data available |
| e) Melting point/freezing point            | 15 °C             |
| f) Initial boiling point and boiling range | 196°C             |
| g) Flash point                             | no data available |
| h) Evaporation rate                        | no data available |
| i) Flammability (solid, gas)               | no data available |

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|   |                   |
|---|-------------------|
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure                              | no data available |
| l) Vapour density                               | no data available |
| m) Relative density                             | no data available |
| n) Water solubility                             | no data available |
| o) Partition coefficient: n-octanol/water       | no data available |
| p) Auto-ignition temperature                    | no data available |
| q) Decomposition temperature                    | no data available |
| r) Viscosity                                    | no data available |
| s) Explosive properties N                       | no data available |
| t) Oxidizing properties N                       | no data available |

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

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Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

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

Additional Information

no data available

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## 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

no data available

### 12.6 Other adverse effects

no data available

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## SECTION 13:

### 13.1 Disposal considerations

Product

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Disposal should be in accordance with applicable regional, national and local laws and regulations.  
Contaminated packaging  
Dispose of as unused product.

## SECTION 14: Transport information

### DOT (US)

|  |  |   |
|--|--|---|
| UN number: UN3129  | Packing group: II                          | Class: 4.3                                  |
| Proper shipping name: Water-reactive liquid, corrosive, n.o.s. | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no data available                       |  |   |

### IMDG

|  |                   |                 |
|--|-------------------|-----------------|
| UN number: UN3129  | Packing group: II | EMS-No: F-G,S-N |
| Proper shipping name: Water-reactive liquid, corrosive, n.o.s. |                   |                 |

### IATA

|  |                   |            |
|--|-------------------|------------|
| UN number: UN3129  | Packing group: II | Class: 4.3 |
| Proper shipping name: Water-reactive liquid, corrosive, n.o.s. |                   |            |

## SECTION 15: Regulatory information

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

## SECTION 16: Other information

### Further information

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