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

# SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-22 Print Date: 2024-01-29

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

# 1.1 Product identifiers

Product name	: Titanium hydride
Product Number	: T119186
Brand	: aladdin
CAS-No.	: 7704-98-5

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

: Laboratory chemicals, Manufacture of substances.

Identified uses
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# 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
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# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word
Hazard statement(s)
H228
Precautionary statement(s)
P210



Flammable solid

Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

# 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	: Titanium(II) hydride
Formula	: TiH2
Molecular weight	: 49.88
CAS No.	: 7704-98-5
EC-NO.	: 231-726-8

Component	Classification	Concentration
Titanium hydride		
	no data available	-325 mesh, 99%

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water.Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting.Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a physician.

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

no data available

### 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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media no data available

# 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Titanium/titanium oxides

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### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

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

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

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

Sweep up and shovel.Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).Keep in suitable, closed containers for disposal.Contain spillage, pick up with an electrically protected vacuum cleaner or by wetbrushing and transfer to a container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

no data available

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

# 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Keep in a dry place.

### 7.3 Specific end use(s)

no data available

# 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.

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Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching gloves 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. Body Protection

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 full-face 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

no data available

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

• •	
a) Appearance	form: 粉末 color: 灰色
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	> 400 °C (> 752 °F) - dec.
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
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	3.91 g/cm3 at 25 °C (77 °F)
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

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### 9.2 Other safety information

no data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

no data available

#### 10.3 Possibility of hazardous reactions

Heat, flames and sparks.Extremes of temperature and direct sunlight.

#### 10.4 Conditions to avoid

acids

#### 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Titanium/titanium oxides

### 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Carcinogenicity no data available Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available

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> Specific target organ toxicity - repeated exposure May be harmful if inhaled.May cause respiratory tract irritation. Aspiration hazard no data available Additional Information no data available

# **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

# **SECTION 13:**

# 13.1 Disposal considerations

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

### SECTION 14: Transport information

# DOT (US) UN number: 1871 Packing group: II Class: 4.1 Proper shipping name: Titanium hydrideReportable Quantity(RQ): no data available Poison Inhalation Hazard: no data available

Environmental Hazards: No



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IMDG		
UN number: 1871	Packing group: II	EMS-No: no data available
Proper shipping name: Titani	um hydride	
ΙΑΤΑ		
UN number: 1871	Packing group: II	Class: 4.1
Proper shipping name: Titani	um hydride	

# SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **SECTION 16: Other information**

Further information

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