

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-12

Print Date: 2025-09-16

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

#### 1.1 Product identifiers

Product name : Titanium(IV) butoxide, polymer

Product Number : T350722

Brand : aladdin

CAS-No. : 9022-96-2

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

### **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]

Serious eye damage/eye irritation[Category 2A]

Flammable liquids [Category 3]

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 





Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapor



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Causes skin irritation
Causes serious eye damage
Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Keep away from heat, hot surface, sparks, open flames and other ignition sources
No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting//] equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands [and] thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Specific treatment (see on this label).
IF ON SKIN: wash with plenty of water.
IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN
with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses if present and easy to do - continue rinsing.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use to extinguish.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container to an approved waste disposal plant.
Wash hands [and] thoroughly after handling. Do not touch eyes.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact
lenses if present and easy to do. Continue rinsing.
Get emergency medical help.
If eye irritation persists: Get medical help.
If skin irritation occurs: Get medical help.

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

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

P319

Get medical help if you feel unwell.



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#### 3.1 Substances

Synonyms : Tilcom PBT; Tytan PBT; Tyzor BTP; Tyzor PB; Vertec PBT; Tetrabutyl

titanate polymer

Formula : no data available

Molecular weight : no data available

CAS No. : 9022-96-2

EC-NO. : no data available

Component Classification Concentration

Titanium(IV) butoxide,

polymer

no data available no data available

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### If inhaled

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

#### In case of skin contact

Wash skin with with plenty of water

### In case of eye contact

Wash with plenty of water.

### If swallowed

Never feed anything to an unconscious person. Rinse your mouth and drink more water.

# 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

Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media

no data available

# 5.2 Special hazards arising from the substance or mixture



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no data available

# 5.3 Advice for firefighters

Wear self-contained breathing and full protective equipment

### 5.4 Further information

no data available

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

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

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

# 6.3 Methods and materials for containment and cleaning up

If safety requires, prevent further leakage or spillage. Soak with inert absorbent materials (such as sand, silica gel, acid adhesive, universal adhesive, sawdust). Pick up and transfer to a properly labeled container.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Store at room temperature.

### 7.3 Specific end use(s)

no data available

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

### 8.1 Control parameters



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# 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 -39 °C f) Initial boiling point and boiling range 113.91°C

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 no data available
n) Water solubility no data available



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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

# **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

Heat, flames and sparks.

# 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Carbon oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity

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 data available



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### 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** 

# **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**

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**



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DOT (US)

UN number: UN1993 Packing group: III Class: 3

Proper shipping name: Flammable Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

liquids, n.o.s. available available

Environmental Hazards: no data available

**IMDG** 

UN number: UN1993 Packing group: III EMS-No: F-E,S-E

Proper shipping name: Flammable liquids, n.o.s.

IATA

UN number: UN1993 Packing group: III Class: 3

Proper shipping name: Flammable liquids, 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**

Prepared By Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com

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