

# **SAFETY DATA SHEET**

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

### 1.1 Product identifiers

Product name Titanium

CAS number 7440-32-6

Synonyms No information available.

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

Identified uses Laboratory chemicals.

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

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Flammable solids (Category 1) Combustible dust

## 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements May form combustible dust concentrations in air

Flammable solid

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Wear protective gloves/protective clothing/eye protection/face protection

In case of fire; Use CO2, dry chemical, or foam for extinction Store in a well-ventilated place. Keep container tightly closed.

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

None identified.

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

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Titanium	N/A	7440-32-6	> 95%	

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

## 4.1 Description of first-aid measures

### General advice

**If inhaled** Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

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

None reasonably foreseeable.

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## 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

**Suitable extinguishing media** Dry sand. Approved class D extinguishers.

**Unsuitable extinguishing media**No information available.

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

Flammable. Dust can form an explosive mixture with air. Combustible material. Fine dust dispersed in air may ignite.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** 250 °C / 482 °F

**Explosion limits** 

Upper No information available.Lower No information available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
0	4	1	N/A

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

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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

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### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

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

## 7.1 Precautions for safe handling

## Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Store under an inert atmosphere.

#### Incompatibilities

Strong oxidizing agents. Strong acids. Halogens. oxygen. Metals. Carbon dioxide (CO2). Halocarbons.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### 8.2 Exposure controls

### Appropriate engineering controls

Use explosion-proof electrical/ventilating/lighting equipment.

### Personal protective equipment

#### Eye/face protection

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Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin protection

Wear appropriate protective gloves.

#### **Body Protection**

Wear appropriate clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Do not let product enter drains.

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

## 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Grey
Odor Odorless

Odor Threshold No information available.

pH Not applicable.

Melting Point/Range 1660 °C / 3020 °F

Boiling Point/Range 3287 °C / 5948.6 °F @ 760 mmHg

Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

Upper No information available.
Lower No information available.
Vapor Pressure No information available.

Vapor Density Not applicable.

Density 4.51

Solubility Insoluble in water.

Partition coefficient; n-octanol/water No information available.

Autoignition Temp 250 °C / 482 °F

Decomposition Temp No information available.

Viscosity Not applicable.

Molecular Formula Ti Molecular Weight 47.88

VOC Content(%)

Oxidizing properties

No information available.

No information available.

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## 9.2 Other safety information

No information available.

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

## 10.1 Reactivity

Reactive.

## 10.2 Chemical stability

Moisture sensitive. Air sensitive. Pyrophoric: Spontaneously flammable in air.

### 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air. Incompatible products. Exposure to moist air or water.

### 10.5 Incompatible materials

Acids, Strong oxidizing agents, Strong acids, Halogens, oxygen, Metals, Carbon dioxide (CO2), halocarbons.

## 10.6 Hazardous decomposition products

Titanium oxides.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Product Information, Component Information**

#### **Acute toxicity**

No acute toxicity information is available for this product.

### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

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Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Titanium	7440-32-6	Not listed				

### Specific target organ toxicity - single exposure

None known.

### Specific target organ toxicity - repeated exposure

None known.

## Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

## 12.2 Persistence and degradability

Insoluble in water. May persist.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Is not likely mobile in the environment due to its low water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

DOT (US)

UN-No UN2546

Proper Shipping Name Titanium Powder, Dry

Hazard Class 4.2 Packing Group II

**IMDG** 

UN-No UN2546

Proper Shipping Name Titanium Powder, Dry

Hazard Class 4.2 Packing Group II

IATA

UN-No UN2546

Proper Shipping Name Titanium Powder, Dry

Hazard Class 4.2 Packing Group II

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not listed.

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### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace** 

Not listed.

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Not listed.

US. New Jersey Worker and Community Right-to-Know Act Listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

**California Proposition 65** 

Not listed.

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

Issue date: 10/11/2024

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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