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## Section 1: Identification of the substance or mixture and the company

#### 1.1. Product Identifier

Titanium (Ti) in various manufactured forms. EC #: 231-142-3 CAS #: 7440-32-6 The substances do not require registration according to regulation (EC) N. 1907/2006 (REACH).

### 1.2 Relevant applications of the material and uses advised against

Titanium (Ti) target material, evaporation source for vacuum deposition.

### 1.3. Company details

Vof Micro to Nano Tappersweg 91 2031ET Haarlem Netherlands

Tel: +31(0)85-2013155 E: info@microtonano.com

### 1.4 Emergency telephone number

+31(0)85-2013155 (office hours) Vof Micro to Nano, Netherlands

### Section 2: Hazards identification

### 2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008 CLP

This substance is not classified as hazardous in accordance with regulation Nr. 1272/2008/EC

### 2.2 Labeling elements

### Labelling accordance to Regulation EC. Nr 1272/2008

Not needed

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#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, the substance is not a PBT or a vPvB

# Section 3: Composition / information on components

#### 3.1. Substances

Titanium (Ti) in various manufactured forms. EC #: 231-142-3 CAS #: 7440-32-6

#### 3.2 Mixtures

Not applicable

### Section 4: First aid measures

#### 4.1. Description of first aid measures

Contact with eyes: Rinse cautiously with water for several minutes. If possible, remove contact

lenses. Continue rinsing.

Contact with skin: Brush off loose particles from skin. Rinse skin with water/shower. Inhalation: Provide fresh air. There is no major dust generation possible. Ingestion: Rinse mouth. Seek medical assistance if you feel unwell

### 4.2. Important symptoms and effects, either immediate or delayed

Symptoms and effects are not known to date.

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

None

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# Section 5: Firefighting Measures

### 5.1. Extinguishing media

Water, foam, dry extinguishing powder, ABC-Powder. Do not use water jet.

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

Non-combustible

### 5.3 Advice to firefighters

Fight fire from a safe distance, with adequate cover.

Do not move the load if exposed to heat.

In case of fire: do not breathe fumes.

Wear self-contained breathing apparatus for fire fighting

# Section 6: Accidental release measures

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

No special measures are necessary.

### 6.2 Environmental precautions

Do not allow to enter public sewers and waterways

### 6.3 Methods and material for containment and clean up

Pick up mechanically

### 6.4 Reference to other sections

For further information see section 7, 8 and 13.

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# Section 7: Handling and storage

### 7.1. Precautions for safe handling

No special measures are necessary. Control dust.

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

Store in a cool dry place

### 7.3 Specific end uses(s)

Not required

# Section 8: Exposure control and personal protection

### 8.1. Control parameters

Occupational exposure limits: Data are not available

#### 8.2 Exposure controls

Control procedures: Avoid creating or accumulating dust or fine particles

Wash hands before breaks and at the end of the work

Maintain appropriate working environment

Personal protection: Protective work clothing

Inhalation: Use suitable respirator when high concentrations are present

Hands and skin: Hand protection is not required

Eyes: Wear safety goggles with side protection or full-face protection

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# Section 9: Physical and chemical properties

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

Appearance/physical state: Solid in various forms

Colour: silver grey
Odour: None

pH Not applicable

Melting point/range: 1668°C Boiling point/range: 3287°C

Flammability: Not combustible
Flash point: Not determined
Evaporation rate: Not available
Explosion limits: upper limit: Not determined

lower limit: Not determined

Vapour pressure: Not applicable

Relative density: 4.51 g/cm3 @ 20°C

Solubility in water: Practically insoluble in water

Auto-ignition: Not determined Viscosity: Not applicable

#### 9.2 Other information

None

# Section 10: Stability and reactivity

#### 10.1. Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

No known hazardous reactions

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#### 10.4 Conditions to avoid

There are no specific conditions which have to be avoided

### 10.5 Incompatible materials

There is no additional information

### 10.6 Hazardous decomposition products

Non-combustible

### Section 11: Toxicological information

### 11.1. Information on toxicological effects

This substance does not meet the criteria for classification in accordance with regulation NO. 1272/2008/EC

### Information hazard classes as defined in Regulation (EC) Nr. 1272/2008

Inhalation:Shall not be classified as presenting an aspiration hazardSkin contact:Shall not be classified as a respiratory or skin sensitiser

**Eye contact:** Shall not be classified as seriously damaging to the eye or eye irritant

**Sensitisation:** Shall not be classified as a respiratory or skin sensitiser

Germ cell mutagenicity: Shall not be classified as germ cell mutagenic

**Carcinogenicity:** Shall not be classified as carcinogenic

Reproductive toxicity: Shall not be classified as a reproductive toxicant

**Specific target organ toxicity – single exposure:** Shall not be classified as a specific target organ toxicant **Specific target organ toxicity – repeated exposure:** Shall not be classified as a specific target organ

Toxicant

Acute toxicity: Shall not be classified as acutely toxic.

#### Symptoms related to the physical, chemical and toxicological characteristics

If swallowed:Data are not availableIf in eyes:Date are not availableIf inhaled:Data are not availableIf on skin:Data are not available

Other information: Health effects are not known (Contd. on page 7)



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### 11.2. Endocrine disrupting properties

Not listed

#### 11.3. Information on other hazards

There is no additional information

# Section 12: Ecological information

### 12.1. Aquatic toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

No data available

### 12.3 Bio-accumulative 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 Endocrine disrupting properties

Not listed

### 12.7 Hazardous decomposition products

No information available

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# Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.

Do not discharge into drains or the environment, dispose to an authorised waste

collection point.

National regulations: Disposal should be in accordance with local, state or national legislation.

# Section 14: Transport information

#### 14.1. UN number

UN-number: N/A

### 14.2 UN proper shipping name

Proper shipping name: N/A

### 14.3 Transport hazard class(es)

Class: N/A ADR/RID-Classification code: N/A

## 14.4 Packing group

Packing: N/A

### 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A IMDG-Marine pollutant: N/A IATA/ICAO-Environmentally hazardous: N/A

### 14.6 Special precautions for user

ADR/RID-Tunnel code: N/A (Contd. on page 9)



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IMDG-Ems: N/A (Contd. of page 8)

IATA/ICAO-PAX: N/A IATA/ICAO-CAO: N/A

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

### Section 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation 649/2023/EA concerning the export/import of hazardous chemicals (PIC): Not listed

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS): Not listed

Regulation 850/2004/EC on persistent organic pollutants: Not listed

Restrictions according to REACH, Annex XVII: Not listed

Restrictions according to REACH, Title VIII: None

List of substances subject to authorization (REACH, Annex XIV)/SVHC - candidate list: Not listed

### 15.2 Chemical safety assessment

No information available

### Section 16: Other information

#### **RoHS Directive Compliant**

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

#### WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

### Abbreviations:

Asp. Tox Aspiration hazard Carc. Carcinogenicity Exp. Exposure

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Flam. Flammable

GHS Global Harmonised System of Classification of Labelling Chemicals

Irrit. Irritant

N/A Not applicable N/E Not estimated

NOEC No observed effect concentration

LC50 Lethal dose single exposure to causing 50% lethality

LD50 Lethal dose 50% corresponds to causing 50% lethality during a specific time

PBT Persistent Bio-accumulative and Toxic

WEL Workplace Exposure Limit
Repr. Reproductive toxicant

ROHS Restriction of Hazardous Substance
vPvB very Persistent and very Bio-accumulative
WEEE Waste Electrical and Electronic Equipment

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

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