

TUNGSTIC OXIDE ON ZIRCONIUM OXIDE

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

1.1. Product identifier

Product name: TUNGSTIC OXIDE ON ZIRCONIUM OXIDE

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

Use of substance / mixture: PC21: Laboratory chemicals. PROC15: Use as laboratory reagent

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

Company name: Elemental Microanalysis Ltd

1 Hameldown Road Okehampton

Okehampton

Devon

EX20 1UB

United Kingdom

Tel: 44(0)183754446

Fax: 44(0)183754544

Email: info@microanalysis.co.uk

#### 1.4. Emergency telephone number

Emergency tel: +44 (0) 7990 767375

(office hours only)

# Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification under CLP: \* This product has no classification under CLP.

## 2.2. Label elements

Label elements: \* This product has no label elements.

#### 2.3. Other hazards

Other hazards: \*

PBT: This product is not identified as a PBT/vPvB substance.

#### Section 3: Composition/information on ingredients

3.2. Mixtures

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### Hazardous ingredients:

#### TUNGSTEN (VI) OXIDE.

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-231-4	1314-35-8	Substance with a Community workplace exposure limit.	-	70-90%

#### ZIRCONIUM OXIDE

215-227-21314-23-4Substance with a Community workplace exposure limit.	-	1-10%
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# Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

**Ingestion:** \* There may be irritation of the throat.

Inhalation: \* There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: \* Not applicable.

# Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

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

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

### Section 6: Accidental release measures

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

Personal precautions: \* Refer to section 8 of SDS for personal protection details.

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#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water.

## 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

#### Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: \* Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in a cool, well ventilated area.

7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Hazardous ingredients:

**TUNGSTEN (VI) OXIDE.** 

#### Workplace exposure limits:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	-	-	5mg/m3	10mg/m3

**Respirable dust:** 

#### **DNEL/PNEC** Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

Engineering measures:Ensure there is sufficient ventilation of the area.Respiratory protection:\* Respiratory protective device with particle filter.Hand protection:Protective gloves.Eye protection:Safety glasses. Ensure eye bath is to hand.Skin protection:Protective clothing.

# Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State: Granules

# Colour: Yellow

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Odour:	Odourless		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Boiling point/range°C:	No data available.	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	No data available.	pH:	No data available.
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

#### Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

# 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

#### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicity values: No data available.

#### Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: \* There may be irritation of the throat.

Inhalation: \* There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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### Section 12: Ecological information

# 12.1. Toxicity

## Hazardous ingredients:

### **TUNGSTEN (VI) OXIDE.**

ALGAE	72H IC50	1	mg/l
Daphnia magna	48H EC50	2.6	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	5.25	mg/l

## ZIRCONIUM OXIDE

Daphnia magna	48H EC50	100	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	100	mg/l

#### 12.2. Persistence and degradability

# Persistence and degradability: \* Biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: \* No bioaccumulation potential.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: \* Negligible ecotoxicity.

#### Section 13: Disposal considerations

13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Section 14: Transport information

Transport class: This product does not require a classification for transport.

# Section 15: Regulatory information

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

Specific regulations: Not applicable.

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15.2. Chemical Safety Assessment		
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.	
Section 16: Other informatio	n	
Other information		
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.	
Legal disclaimer:	* indicates text in the SDS which has changed since the last revision. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.	