

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

### 1.1 Product identifiers

**Product name:** Tungstic Oxide Sample Additive, OEA

**Catalogue no:** R51130

**SDS reference no:** R14000

**Brand:** OEA Labs

**EC index no(s):** 215-231-4

**REACH no:** The annual tonnage does not require registration.

**CAS no(s):** WO3[1314-35-8]

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

**Identified uses:** Elemental analysis scientific instrumentation. Not for pharmaceutical, domestic or other uses.

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

**Company name:** OEA Laboratories Limited  
Unit C2 Florence Road Business Park  
Kelly Bray, Callington, Cornwall  
PL17 8EX, United Kingdom

**Telephone:** +44 (0)1579 384174

**Fax:** +44 (0)1579 384174

**Email:** [sales@oealabs.com](mailto:sales@oealabs.com)

### 1.4 Emergency telephone number

**Telephone:** +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

### 2.2 Labelling elements according to Regulation (EC) No 1272/2008

**Pictogram(s):**

**Signal word:**

**Hazard statement(s):**

- Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**Precautionary statement(s):**

Restricted to professional users.

### 2.2 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3. Composition/information of ingredients

### 3.1 Substances

**Synonyms:** Tungsten(VI) oxide, Tungstic anhydride, Tungsten trioxide, Tungstic oxide

**Formula:** WO<sub>3</sub>

**Molecular weight:** 231.84

**Components:**

Tungsten (VI Oxide) Concentration: ~100%

CAS No 1314-35-8, EC No 215-231-4, -, Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008, ;

## 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.

**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:**

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**

The most important known symptoms and effects are described in the labelling (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:**

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

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

Tungsten oxide.

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available.

**SECTION 6. Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area. Avoid breathing dust.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Pick up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For safe handling see Section 7. For disposal see Section 13. For personal protection equipment see Section 8.

**SECTION 7. Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation of the workplace. Avoid contact with eyes and skin. Avoid formation of dust, vapours and aerosols. Follow normal measures for fire protection.

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

Keep containers tightly sealed. Store in a cool, dry place.

**7.3 Specific end uses**

Apart from uses mentioned in Section 1.2 no other specific uses are stipulated.

**SECTION 8. Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters:**

Tungsten (VI Oxide)

CAS No 1314-35-8, Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008; STEL, 10mg/m3, UK, EH40 WEL; TWA, 5mg/m3, UK, EH40 WEL

**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 the workday.

**Personal protective equipment:**

**Eye/face protection:**

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

**Skin protection:**

Handle with gloves to specification EU Directive 89/686/EEC and EN374. Inspect prior to use. Use proper glove removal practice to avoid contact with product. Wash and dry hands.

**Body protection:**

Complete suit protection against chemicals. The type of protective equipment must be selected according to the

concentration and amount of 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 (EN143) respirators 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).

**Environmental protection:**

Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form:</b>	Granules or powder
<b>Colour:</b>	Yellow
<b>Odour:</b>	No data available
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point:</b>	1472°C
<b>Boiling point:</b>	1837°C @ 1013hPa
<b>Flash point:</b>	Not applicable
<b>Flammability solid/gas:</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Water solubility:</b>	No data available
<b>Autoignition temp:</b>	No data available
<b>Decomp temperature:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	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

Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Stable under recommended storage conditions.

### 10.5 Incompatible materials

Strong acids

### 10.6 Hazardous decomposition products

No data available

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

LD50 Oral - rat - male & female - >2,000mg/kg (tungstic oxide)

LD50 inhalation - rat - male & female - 4hrs - >5.36mg/l (OECD Test Guideline 403), (tungstic oxide)

**Skin corrosion/irritation:**

Skin - rabbit - no skin irritation - 4hrs (OECD Test Guideline 404), (tungstic oxide)

**Serious eye damage/eye irritation:**

Eyes - rabbit - no eye irritation - 72hrs (OECD Test Guideline 405), (tungstic oxide)

**Respiratory or skin sensitisation:**

Maximisation Test - guinea pig - does not cause skin sensitisation (OECD Test Guideline 406), (tungstic oxide)

**Germ cell mutagenicity:**

Ames Test - S. typhimurium - negative

**Carcinogenicity:**

IARC: 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.

**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

**Potential health effects - inhalation:**

No data available

**Potential health effects - ingestion:**

No data available

**Potential health effects - skin:**

No data available

**Potential health effects - eyes:**

No data available

**Signs and symptoms of exposure:**

No data available

**Additional information:**

RTECS: YO7760000. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 12. Ecological information

### 12.1 Toxicity

**Toxicity to fish:**

static test LC0 - Danio rerio (zebra fish) -  $\geq$  5.25 mg/l - 96 h (OECD Test Guideline 203) (tungstic oxide)

**Toxicity to daphnia and other aquatic invertebrates:**

Immobilization EC0 - Daphnia magna (Water flea) -  $\geq$  2.6 mg/l - 48 h (OECD Test Guideline 202) (tungstic oxide)

**Toxicity to algae:**

Growth inhibition EC0 - Desmodesmus subspicatus (green algae) -  $\geq$  1 mg/l - 72 h (OECD Test Guideline 201) (tungstic oxide)

**Toxicity to bacteria:**

Respiration inhibition EC50 - Sludge Treatment -  $>$  10,000 mg/l - 3 h (tungstic oxide)

### 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

**Product:**

Offer surplus and non-recyclable material to a licensed professional waste disposal company.

**Contaminated packaging:**

Dispose of as unused product.

## SECTION 14. Transport information

### 14.1 UN number

ADR/RID/IATA/IMDG: Not dangerous goods

**14.2 UN proper shipping name**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.4 Packaging group**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.5 Environmental hazards**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.6 Special precautions for user**

Not dangerous goods

**14.7 Shipping quantities**

ADR LQ maximum: Not dangerous goods

ADR EQ code: Not dangerous goods

ADR EQ IP/pkg: Not dangerous goods

IATA LQ PInstruction: Not dangerous goods

IATA LQ IP/pkg: Not dangerous goods

IATA EQ code: Not dangerous goods

IATA EQ IP/pkg: Not dangerous goods

De minimus: Not dangerous goods

**SECTION 15. Regulatory information**

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

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

No data available

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16 Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See [www.oealabs.com](http://www.oealabs.com) for terms and conditions of sale.