SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

TUNGSTIC OXIDE ON ALUMINA

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name
TUNGSTIC OXIDE ON ALUMINA

Company
Elemental Microanalysis Ltd
Hameldown Road
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United Kingdom
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Emergency telephone number
+44 (0) 1837 54446

2. HAZARDS IDENTIFICATION

Main hazards
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

<table>
<thead>
<tr>
<th>Conc.</th>
<th>CAS</th>
<th>EINECS</th>
<th>Symbols/Risk phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tungsten (VI) Oxide</td>
<td>20 - 30%</td>
<td>1314-35-8</td>
<td>215-231-4              Xn; R22 Xi; R36/37/38</td>
</tr>
<tr>
<td>Aluminium Oxide</td>
<td>70 - 80%</td>
<td>1344-28-1</td>
<td>215-691-6</td>
</tr>
</tbody>
</table>

(Aluminium oxides respirable dust)

4. FIRST AID MEASURES

Skin contact
May cause irritation to skin. Wash off immediately with plenty of soap and water.
Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact
May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes
holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation
May cause irritation to respiratory system. Move the exposed person to fresh air. Seek
medical attention.

Ingestion
Rinse mouth thoroughly. If swallowed, seek medical advice immediately and show this
container or label.

5. FIRE FIGHTING MEASURES

Extinguishing media
Use extinguishing media appropriate to the surrounding fire conditions.

Protective equipment
Wear suitable respiratory equipment when necessary.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

Environmental precautions
Do not allow product to enter drains. Prevent further spillage if safe.

Clean up methods
Sweep up. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

Storage
Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

<table>
<thead>
<tr>
<th>Material</th>
<th>WEL 8-hr limit ppm</th>
<th>WEL 15 min limit ppm</th>
<th>WEL 8-hr limit mg/m³</th>
<th>WEL 15 min limit mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Oxide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Aluminium oxides respirable dust)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium Oxide</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Aluminium oxides total inhalable dust)</td>
<td></td>
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</tbody>
</table>

Engineering measures
Ensure adequate ventilation of the working area.

Respiratory protection
Wear: Suitable respiratory equipment.

Hand protection
Chemical resistant gloves (PVC)

Eye protection
Approved safety goggles.

Protective equipment
Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description
Granules.

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Materials to avoid
Strong acids.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Tungsten (VI) Oxide
Oral Mouse LD₅₀ = 1059mg/kg

12. ECOLOGICAL INFORMATION

Further information
No data is available on this product.

13. DISPOSAL CONSIDERATIONS

General information
Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

Further information
The product is not classified as dangerous for carriage.
### 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Labelling</th>
<th>The product is classified in accordance with 67/548/EEC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbols</td>
<td>Xn - Harmful</td>
</tr>
</tbody>
</table>

**Risk phrases**
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.

### 16. OTHER INFORMATION

**Text of risk phrases in Section 3**
- R22 - Harmful if swallowed.
- R36/37/38 - Irritating to eyes, respiratory system and skin.

**Further information**
The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.