MATERIAL SAFETY DATA SHEET FOR CARBON & GRAPHITE POWDERS & CEMENT

Voluntary information & advice for the safe use of products supplied by Olmec Advanced Materials Ltd

1. Identification of the Substance/Preparation

GRADES:
SYN6, PWD/CK-200, 50M, 1200M, 406, General Graphite & Carbon Powders from r/c powder/lump

Manufacturer/Supplier Details:
OLMEC ADVANCED MATERIALS LTD
12 Terminus Road
SHEFFIELD
S7 2LH
Tel: +44 (0) 114 236 1606
Fax: +44 (0) 114 262 1202
Email: info@olmec.co.uk
Great Britain Website: www.olmec.co.uk

Information Providing Division:
OLMEC ADVANCED MATERIALS LTD
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SHEFFIELD
S7 2LH
Tel: +44 (0)114 236 1606
Fax: +44 (0) 114 262 1202
Email: info@olmec.co.uk
Great Britain Website: www.olmec.co.uk

Emergency Information:

Contact: Health & Safety Manager
Tel: +44 (0) 114 236 1606
2. Composition/Components

**Chemical Characterisation:**
Product/material based on Carbon and/or Graphite

**Hazardous Ingredients:**
No ingredient is classified hazardous acc. To 57/548/ECC

**Additional Information:**
None

3. Possible Hazards

**Information on particular hazards to human and environment**
None

4. First Aid Measures

**General Information:**
None

**After Inhalation:**
After inhalation of significant quantities of dust, take affected person to fresh air

**After Skin Contact:**
None

**After Eye Contact:**
Rinse with plenty of water

**After Ingestion:**
Drink Water

**Particular Advice for the Physician:**
None
5. Fire-fighting Measures

**Suitable Extinguishing Media:**
Foam, sand, Carbon Dioxide, dry powder, water drizzle, water mist

**Unsuitable Extinguishing Media (for safety reasons):**
Direct water spray, Halones

**Particular risk arising from the substance/preparation itself, its combustion products or from formed Gases:**
Machining dust may glow in Oxygen containing atmosphere above 350°C. During glowing, and in case of fire, CO/CO₂ is generated resulting in the possible release of SO₂/SO₃

**Special Protection Equipment needed for fire-fighting:**
None. In case of insufficient ventilation, use respiration equipment to prevent the inhalation of CO/CO₂

6. Measures in case of Accidental Release

**Personal Precautions:**
If needed, protection mask (dust or half mask P1) – Note FFP2(S) Mask is suitable

**Environmental Precautions:**
None

**Methods for Cleaning/Taking up**
Remove mechanically

**Additional Information:**
None

7. Handling and Storage

**Handling:**

**Advice on safe handling:**
None

**Advice on protection against fire and explosion:**
None if properly used

**Storage:**

**Requirements on Storage and Tanks:**
None

**Advice on storage assembly:**
None

**Additional information on storage conditions:**
None
8. Exposure limitations and personal protection equipment

**Measures for limitation and monitoring of exposure:**
During machining and dust formation, ensure good ventilation in the work area

**Additional advice on the design of technical equipment:**
None

**Ingredients with occupational exposure limits to be monitored:**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Name of Substance</th>
<th>Type Value Unit</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>007782-42-5</td>
<td>Graphite (Fine Dust)</td>
<td>MAK</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>

**Additional Advice**
None

**Personal Protective Equipment:**

**General protective and hygiene measures:**
None

**Respiratory Protection:**
P1 mask, if dust is formed

**Hand protection:**
None

**Eye Protection:**
Safety glasses if dust is formed

**Body Protection:**
None
9. Physical and Chemical Properties:

Form: Solid
Colour: Grey/Black
Odour: None

Data relevant to safety:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value/range</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening point</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self ignitability:</td>
<td>none (**)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflammable properties:</td>
<td>none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive risk:</td>
<td>none (**)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion limits:</td>
<td>upper</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>lower</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>at 20°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>at 20°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility:</td>
<td>in water at 20°C</td>
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<td></td>
</tr>
<tr>
<td>PH-Value:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>n-octanol/water</td>
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<td></td>
</tr>
<tr>
<td>Viscosity:</td>
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<td></td>
</tr>
<tr>
<td>Additional information:</td>
<td>none</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td>(**) if properly used and stored</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Conditions to be avoided:
None

Contact with substances to be avoided:
None

Hazardous decomposition:
None if used in accordance with description

Additional Information:
None

11. Toxicological Information:

No toxic effects are known due to product handling

12. Ecological Information:

No harmful ecological effects are known from handling the product
13. Disposal Considerations

Product/Preparation:
Dispose in accordance with local authority/state regulations
Dispose as household waste
Waste Code (D) No. 31432

Contaminated packing material:
Dispose in accordance with local authority regulations

14. Transport information

Classified Non-hazardous material according to transport regulations

15. Regulatory Information

Labelling according to EU regulations:
Code letter and hazard symbol for the product: Not subject to mandatory marking
Hazardous ingredient(s) relevant for labelling: None
R-phrases: None
S-phrases: None

16. Other Information:

None

Material Safety Data Sheet – produced by Olmec Advanced Materials Limited, Sheffield, UK

This information is considered to be accurate based upon our present state of knowledge. It is provided in order to describe the product with respect to safety requirements and does not therefore guarantee specific properties of the product or its suitability for any particular application. This information does not substantiate a contractual agreement.