MATERIAL SAFETY DATA SHEET
Ultralite Castable Products

1. Product and Company Reference
1.1. Product Reference: Ultralite Refractory Castable (URC) – A family of lightweight castable bodies produced from alumino silicates with calcium aluminate binders for creating cast shapes
Ultralite Cavity Fill Castable (UCF) – A family of lightweight castable bodies produced from alumino silicates with calcium aluminate binders

1.2. Company Name: Mantec Technical Ceramics Ltd
1.3. Contact Details: Normacot Road, Longton, Stoke on Trent, Staffordshire, ST3 1PA, England.
1.4. Website: www.mantectechnicalceramics.com
1.5. Fax: +44 1782 377599
1.6. Email: ultralite@mantectc.com
1.7. Emergency Tel: +44 1782 377550 (Not 24hrs)

2. Hazards Identification
The product is supplied in dry powder form which may become airborne in use. When mixed with water an alkaline solution occurs and heat will be generated along with chemical reactions. In large quantities, the temperature rise may increase enough to cause burns

3. Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient/ Component Name</th>
<th>%</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica</td>
<td>0 - 2</td>
<td>14808-60-7</td>
<td>239-487-1</td>
<td>H373</td>
</tr>
<tr>
<td>Calcined Clays</td>
<td>30 - 95</td>
<td>94552-04-2</td>
<td>266-340-9</td>
<td>Non Hazardous</td>
</tr>
<tr>
<td>Calcium Aluminates</td>
<td>5 - 25</td>
<td>65997-16-2</td>
<td>266-045-5</td>
<td>Non Hazardous</td>
</tr>
<tr>
<td>Aluminium Silicates (mixed)</td>
<td>0 -50</td>
<td>1327-36-2</td>
<td>215-475-1</td>
<td>Non Hazardous</td>
</tr>
</tbody>
</table>

4. First Aid
4.1. Inhalation Remove from source to fresh air. If symptoms occur, seek medical attention
4.2. Ingestion Wash mouth out with plenty of clean water. If symptoms persist, seek medical attention
4.3. Skin contact Remove contaminated clothing and launder before re-use. Wash affected area with mild soap and water and apply skin moisturizers
4.4. Eye contact Wash affected eye(s) with large amounts of clean water. If symptoms persist, seek medical attention
5. **Fire – Fighting Measures**
   Product is incombustible and inert in fire therefore there are no special considerations to be made

6. **Spillage**
   Avoid allowing material to enter drains, sewers or water courses as the material hardens in contact with water
   6.1. **Personal Protection**
       Avoid creating dust. Collect spillage using dry collection method, preferably by vacuum cleaning, and dispose of as non-hazardous waste.

6. **Handing & Storage**
   Use appropriate controls and practices to minimize dust generation. Store under cover and keep dry.
   Contact with moisture during storage will cause product to hydrate which will cause lumps and affect performance in use

8. **Exposure Control/ Personal Protection**
   8.1. **Respiratory Protection**
       Mechanical ventilation should be used where practical for all handling, operations. In all cases, dust generation should be minimized. Suitable respiratory masks recommended
   8.2. **Skin Protection**
       Protective clothing including waterproof gloves and boots is recommended
   8.3. **Eye Protection**
       Dust proof goggles should be worn whenever there is a risk of powder or wet mix entering the eyes. Supply of clean water or eyewash facilities should also be available

9. **Physical and Chemical Properties**
   Appearance  grey
   Odour  none
   pH  >8 in water
   Boiling Point  not determined
   Melting Point  above 1100°C
   Flammability  not applicable
   Explosive Properties  not applicable
   Oxidising Properties  not applicable
   Vapour Pressure  not applicable
   Specific Gravity  0.15 – 1.2
   Solubility  ~ 2% soluble in water

10. **Stability and Reactivity**
    The product is chemically stable in dry conditions. In damp or wet conditions the product reacts chemically and hardens forming stable hydrates. The reaction is exothermic and continues for up to 24hrs. Total heat release is ~ 250kJ/kg
    10.1. **Conditions to Avoid**
       Keep dry until ready for use
    10.2. **Dangerous decomposition products**
       none
11. Toxicological Information
Not Acutely Toxic. May cause local irritation to eye, throat or skin but does not qualify as irritant according to EEC legislation

Does not contain measurable amounts of Chromium VI

12. Ecological Information
12.1. Persistence and degradability not biodegradable
12.2. Bioaccumulation not assimilated
12.3. Aquatic toxicity none

13. Waste Disposal
Unused products and residue may be disposed of as non-toxic, inert materials to approved landfill sites in accordance with local regulations.
During use, the product may become contaminated with hazardous materials. Please refer to the relevant safety data sheet for those materials and treat accordingly

14. Transport
Not classified as dangerous for transport

15. Regulatory Information
None

16. Additional Information
This data sheet is prepared for the specific materials listed and is only valid for such materials as supplied. The information given is believed to be accurate at the time of issue and is given in good faith. This issue supersedes all previous issues.
No representation, warranty or guarantee is made as to accuracy, liability or completeness. The product is supplied on the condition that the user accepts responsibility to satisfy himself as to suitability and completeness of such information for his own particular use.
Where the information provided herein discloses a potential hazard or hazardous ingredient, adequate warning must be provided to employees and users and appropriate precautions taken, including the practice of good industrial hygiene.


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