



**ANH Refractories Europe Ltd**

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**SAFETY DATA SHEET**

<p><b>1. PRODUCT IDENTIFICATION</b></p> <p><b>Commercial Name</b></p> <p><b>Description</b></p> <p><b>Manufacturer</b></p>	<p>This Safety Data Sheet covers the product below.</p> <p>TUFCAST LI</p> <p>Dry refractory castables</p> <p>ANH Refractories Europe Ltd          Dock Road South          Bromborough, Wirral          CH62 4SP, England</p> <p>Tel: 44 (0)151 641 5900 Fax: 44 (0)151 641 5910          E-Mail: sales@anheurope.co.uk</p>												
<p><b>2. INFORMATION ON INGREDIENTS</b></p> <p><b>Impurities of a dangerous nature</b></p>	<table border="0"> <tr> <td>Refractory Aggregates</td> <td>&gt;50</td> <td>≤100%</td> </tr> <tr> <td>CAS NO. 1344-28-1</td> <td></td> <td></td> </tr> <tr> <td>Calcium Aluminate Cement</td> <td>&gt;10</td> <td>≤25%</td> </tr> <tr> <td>CAS NO. 65997-16-2</td> <td></td> <td></td> </tr> </table> <p>Crystalline Silica may be present at typical concentrations of &gt;1 ≤2.5%, most of this is encapsulated in the coarse aggregate.</p>	Refractory Aggregates	>50	≤100%	CAS NO. 1344-28-1			Calcium Aluminate Cement	>10	≤25%	CAS NO. 65997-16-2		
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<p><b>3. HAZARD IDENTIFICATION</b></p>	<p>Long term exposure to Crystalline Silica can cause Silicosis.</p> <p>Prolonged handling can cause drying of the skin.</p>												
<p><b>4. FIRST AID MEASURES</b></p> <p><b>Inhalation</b></p> <p><b>Skin</b></p> <p><b>Eye</b></p> <p><b>Ingestion</b></p>	<p>Remove person to fresh air. If symptoms persist, seek medical attention.</p> <p>Remove contaminated clothing and wash affected area with soap and water.</p> <p>Flush eyes with plenty of clean water / saline. If symptoms persist, seek medical attention.</p> <p>Wash out mouth with water and give plenty of water to drink.</p>												



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<b>5. FIRE-FIGHTING MEASURES</b>	This product is not combustible or explosive.									
<b>6. ACCIDENTAL RELEASE MEASURES</b>	Personal Precautions - See Section 8.  Collect spillage by vacuum cleaning or other means whereby dust creation is minimised  Do not empty material into drains, sewers or water courses as the material hardens in contact with water.									
<b>7. HANDLING AND STORAGE</b>  <b>Handling</b>  <b>Storage</b>	Use appropriate controls to avoid creating dust.  Store in dry conditions on a pallet protected by shrink-wrapping.									
<b>8. EXPOSURE CONTROLS, PERSONAL PROTECTION</b>         <b>Occupational Exposure Limits</b>	Mechanical ventilation is recommended wherever feasible for evacuation of dust during handling operations.  Protective clothing is recommended, including gloves, goggles and boots. Suitable respiratory protection should be worn when conditions are such that the personal exposure is estimated to approach or exceed the stated limit.  <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Respirable Crystalline Silica (CAS 14808-60)</td> <td style="width: 20%; text-align: center;">0.1 mg/m<sup>3</sup></td> <td style="width: 20%; text-align: center;">8 hr TWA</td> </tr> <tr> <td>Product Total Inhalable Dust</td> <td style="text-align: center;">10 mg/m<sup>3</sup></td> <td style="text-align: center;">8 hr TWA</td> </tr> <tr> <td style="padding-left: 100px;">Respirable Dust</td> <td style="text-align: center;">4 mg/m<sup>3</sup></td> <td style="text-align: center;">8 hr TWA</td> </tr> </table>	Respirable Crystalline Silica (CAS 14808-60)	0.1 mg/m <sup>3</sup>	8 hr TWA	Product Total Inhalable Dust	10 mg/m <sup>3</sup>	8 hr TWA	Respirable Dust	4 mg/m <sup>3</sup>	8 hr TWA
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<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>  <b>Form</b> <b>Colour</b> <b>Odour</b> <b>Flash Point</b> <b>Explosion Properties</b> <b>pH</b>	Mixture of granular material and fine powders. Grey / Brown. None. Not applicable. Not applicable 8 to 10 when mixed with water to give usable consistency.									
<b>10. STABILITY AND REACTIVITY</b>	This product is stable and generally unreactive in a dry environment at ambient temperatures. When mixed with water it reacts chemically and sets hard.									



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<b>11. TOXICOLOGICAL INFORMATION</b>	Inhalation of finely divided material may cause respiratory tract irritations especially in a confined space.  May cause local irritation to eye, throat or skin, but does not qualify as an irritant.
<b>12. ECOLOGICAL INFORMATION</b>	If used in the recommended manner this material does not represent a significant environmental hazard.
<b>13. DISPOSAL CONSIDERATIONS</b>	Unused material can be disposed of in approved landfill sites in accordance with local regulations.  Before removal of redundant refractory linings, customers are advised to evaluate any changes that may be induced by the conditions under which it has been used. Consult local and EC regulations.
<b>14. TRANSPORT INFORMATION</b>	No special requirements not classified as hazardous according to international transport regulations.
<b>15. REGULATORY INFORMATION</b>  <b>Product Classification and Labelling</b>	Symbol: Not subject to classification. R-phrases: None. S-phrases: None.
<b>16. OTHER INFORMATION</b>	This safety data sheet has been prepared in accordance with EC Directive 91/155/EEC and current UK and EC legislation.

