

# HEALTH & SAFETY INFORMATION

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<b>1.1 PRODUCT NAME</b>	<b>MFW30/G Spray Dried Flux</b>	Ref Code: 90200091																	
<b>1.2 COMPANY</b>	KMCI Ltd Fountain Street Fenton Stoke-on-Trent																		
<b>1.3 EMERGENCY</b>	Telephone: 01782 744335	Fax: 01782-574600																	
<b>2. COMPOSITION</b>	<table border="0"> <thead> <tr> <th>Mineralogical:</th> <th>Typical composition</th> <th>CAS N<sup>o</sup></th> <th>EINECS</th> </tr> </thead> <tbody> <tr> <td></td> <td>Quartz 20%</td> <td>14808 - 60-7</td> <td>238 - 878-4</td> </tr> <tr> <td></td> <td>Albite 52%</td> <td>68476 - 25-5</td> <td>270 - 666-7</td> </tr> <tr> <td></td> <td>Orthoclase 27%</td> <td>68476 - 25-5</td> <td>270 - 666-7</td> </tr> </tbody> </table> <p>Chemical: A typical XRF analysis by an independent UKAS accredited laboratory is shown in Appendix wcf</p> <p>Physical: Supplied either            a) As a milled suspension in water (slop) having a nominal solids content of 60%, or            b) As a semi-dry granulate having a nominal solids content of 90%.</p>			Mineralogical:	Typical composition	CAS N <sup>o</sup>	EINECS		Quartz 20%	14808 - 60-7	238 - 878-4		Albite 52%	68476 - 25-5	270 - 666-7		Orthoclase 27%	68476 - 25-5	270 - 666-7
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<b>3. HAZARDS</b>	<p>Inhalation: As supplied the product does not give rise to a significant health risk. However when dry, excessive exposure to the dust may result in symptoms of chronic pulmonary disease.</p> <p>Ingestion: Product is of low acute toxicity.</p> <p>Eye Contact: Can produce physical irritation and inflammation.</p> <p>Skin Contact: Waterground products can produce slight irritation. Spillage's of slop product onto floors may constitute a slipping hazard</p>																		
<b>4. FIRST AID MEASURES</b>	<p>Eye Contact: Wash with copious amounts of clean water.</p> <p>Skin Contact: Wash with soap and water.</p> <p>Inhalation: Remove to fresh air.</p> <p>Ingestion: Wash out mouth thoroughly with water. Drink plenty of water. If any symptoms develop seek medical advice.</p>																		

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## WATERGROUND CERAMIC FLUX

### 5. FIRE FIGHTING MEASURES

Non Combustible.  
No special fire-fighting equipment or measures required.

### 6. ACCIDENTAL RELEASE MEASURES

Slop spillages should be removed with copious amounts of water to the factory drainage system, observing effluent control limits. Spillage of semi-dry or dry product should be removed by vacuum methods.

### 7. HANDLING AND STORAGE

When handling all materials, observe good standards of industrial hygiene, and take care to prevent generation of air-borne dust. In the case of semi-dry products maintain integrity of moisture-proof packaging.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

When handling the product it is recommended that protective clothing and gloves are used to minimise physical exposure to the product.  
Where dried product is involved ventilation should be adequate to ensure that Occupational Exposure Limits are not exceeded, or Local Exhaust Ventilation provided.  
Should ventilation measures be found to be unsatisfactory, approved respiratory protection equipment should be worn.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white powder - may be in slop or semi-dry broken cake. (an organic identification dyestuff may be added).  
Odour: Odourless  
pH: N/A  
Boiling Point: N/A.  
Melting Point: Above 1150°C  
Flammability: N/A  
Specific Gravity: Nominally 2.7 gms/cm<sup>3</sup>

### 10. STABILITY AND REACTIVITY

No known hazardous reactions/decomposition products associated with this product.

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<b>WATERGROUND CERAMIC FLUX</b>	
<b>11. TOXICOLOGICAL INFORMATION</b>	No toxic effects are known, but prolonged exposure to air-borne dust constitutes a health hazard.
<b>12. ECOLOGICAL INFORMATION</b>	Non biodegradable, but no known ecotoxicity effects are expected.
<b>13. DISPOSAL</b>	Can be disposed of as a non-toxic material into approved land-fill sites in accordance with current Waste Disposal Regulations.
<b>14. TRANSPORT INFORMATION</b>	Not classified as a substance hazardous for transport.
<b>15. REGULATORY INFORMATION</b>	Not classified as dangerous to supply. The dried product can be regarded as a health hazard.  <b><u>References</u></b> Occupational Exposure Limits - Health and Safety Executive EH40. Dust - General Principles of Protection - Health and Safety Executive EH44.
<b>16. OTHER INFORMATION</b>	This safety data sheet is provided under Regulation 6 CHIP (Chemical Hazard Information and Packaging) 1994, and complies with EC Guideline 91/155/ (Information system for dangerous preparations) in conjunction with Paragraph 21 of the Dangerous Substances Regulation, and is not intended to constitute an assessment of workplace risk associated with the use of this product. Every care is taken in compiling this information, however Global Ceramic Materials Limited disclaims all liability for any loss, damage or expense arising from any inaccuracy therein.

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**MFW30/G Spray Dried Flux**

Ref Code: 90200091

## APPENDIX SDS-WCF

Typical XRF Analysis (% age by wt) as determined by an independent UKAS accredited laboratory:

	% age
Silica (SiO <sub>2</sub> )	77.39
Titania (TiO <sub>2</sub> )	<0.05
Alumina (Al <sub>2</sub> O <sub>3</sub> )	14.06
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.20
Lime (CaO)	0.42
Magnesia (MgO)	<0.05
Potash (K <sub>2</sub> O)	3.34
Soda (Na <sub>2</sub> O)	3.56
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	0.22
Barium Oxide (BaO)	<0.05
Lead Oxide (PbO)	<0.02
Loss of Ignition at 1025°C	1.06