

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product name.** Alkaline Standard Frit Ground & Dried

**Product No.** P2961

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against.

**Identified uses.** Component used in the formulation of Ceramic Frits, Glazes & Inorganic Pigments.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier.** PotteryCrafts Ltd.,  
Campbell Road,  
Stoke on Trent  
ST4 4ET  
Tel 44 (0)1782 745000  
[sales@potteryCrafts.co.uk](mailto:sales@potteryCrafts.co.uk)

#### 1.4. Emergency telephone number

+44(0)1782 745000(Office hrs 8.00- 4.45 Mon-Fri)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**Classification (1999/45/EEC)** Not Classified

#### Human Health

May cause minor irritation on eye contact. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May cause minor irritation on skin contact.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

#### Risk Phrases

NC Not Classified.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

**Chemical Nature :** Product contains glass/frit.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### Ingestion

Do not induce vomiting. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Get medical attention if any discomfort continues.

##### Skin contact

Wash skin with soap and water. Get medical attention if irritation persists after washing.

##### Eye contact

Rinse with water. Contact physician if discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****4.3. Indication of any immediate medical attention and special treatment needed****SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

Use fire-extinguishing media appropriate for surrounding materials.

**5.2. Special hazards arising from the substance or mixture****Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

**Specific hazards**

Dust may form an explosive mixture in the atmosphere.

**5.3. Advice for firefighters****Special Fire Fighting Procedures**

N/A.

**Protective equipment for fire-fighters**

Use protective equipment appropriate for surrounding materials.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

Avoid spreading dust or contaminated materials.

**6.3. Methods and material for containment and cleaning up**

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

**6.4. Reference to other sections****SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a dry place.

**7.3 Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA – 8Hrs	STEL -15 Mins	Notes
Alkaline Standard Frit Ground & Dried		4mg/m <sup>3</sup> resp. dust	=	=

**Ingredient Comments**

Total Inhalable Dust 10mg/m<sup>3</sup> - 8hr TWA Total respirable Dust 4mg/m<sup>3</sup> - 8hr TWA

## 8.2. Exposure controls

### Protective equipment



### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Respiratory equipment

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>.

### Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

### Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Powder, dust
<b>Colour</b>	White/Off White
<b>Odour</b>	Odourless.
<b>Solubility</b>	Slightly soluble in water
<b>Relative density</b>	Not determined.
<b>Vapour density (air=1)</b>	Not relevant
<b>Evaporation rate</b>	Not applicable.
<b>pH-Value, Conc. Solution</b>	Not determined.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

#### Hazardous Polymerisation

Not relevant

### 10.4. Conditions to avoid

Not known.

### 10.5. Incompatible materials

### Materials To Avoid

No incompatible groups noted.

### 10.6. Hazardous decomposition products

Not known

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Toxicological information

No data recorded.

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

**Ingestion**

No harmful effects expected in amounts likely to be ingested by accident.

**Skin contact**

Repeated exposure may cause skin dryness or cracking.

**Eye contact**

May cause temporary eye irritation.

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not expected to be hazardous to the environment.

**12.1. Toxicity**

**12.2. Persistence and degradability**

**Degradability**

The product solely consists of inorganic compounds which are not biodegradable.

**12.3. Bioaccumulative potential**

**12.4. Mobility in soil**

**12.5. Results of PBT and vPvB assessment**

**12.6. Other adverse effects**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION**

**General** The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**14.5. Environmental hazards**

**14.6. Special precautions for user**

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Uk Regulatory References**

Health and Safety at Work Act 1974.

**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**Guidance Notes**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**EU Legislation**

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration,

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Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### General information

#(EN) Examples of ceramic frits belonging to various groups:

Group 1 - frits usually containing elements not included in Annex I of Directive 67/548/EEC and without Pb, Ba, Zn and Cd.

Group 2 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Zn and without Pb, Ba or Cd.

Group 3 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Ba and without Pb, Zn or Cd.

Group 4 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Zn and Ba but without Pb or Cd.

Group 5 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Pb or Cd.

Subgroup 5.1 - lead bisilicate frits ( $0\% < \text{PbO} \leq 69\%$ ,  $\text{SiO}_2 \geq 30\%$ ,  $\text{Al}_2\text{O}_3 \geq 1\%$ ).

Subgroup 5.2 - lead borosilicate frits ( $40\%-60\% \text{PbO}$ ,  $\text{SiO}_2 > 30\%$ ,  $1\%-20\% \text{B}_2\text{O}_3$ ).

Group 6 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Pb and Zn and/or Ba ( $0\%$

$< \text{PbO} \leq 69\%$ ,  $\text{SiO}_2 \geq 30\%$ ,  $\text{Al}_2\text{O}_3 \geq 1\%$ ).

Group 7 - frits usually containing elements not included in Annex I of Directive 67/548/EEC, with Cd and other elements

such as Zn, Ba and Pb ( $0\% < \text{PbO} \leq 69\%$ ,  $\text{CdO} \leq 5\%$ ,  $\text{SiO}_2 \geq 30\%$ ,  $\text{Al}_2\text{O}_3 \geq 1\%$ ).

Group 8 - frits with lead expressed as PbO percentage, frits usually containing elements not included in Annex I of Directive 67/548/EEC, without a minimum of 30% of SiO<sub>2</sub> and/or without a minimum of 1% of Al<sub>2</sub>O<sub>3</sub>.

Group 9 - coloured frits usually containing elements not included in Annex I of Directive 67/548/EEC and metallic oxides in

Annex I of Directive 67/548/EEC.

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**SDS No.** 000

**Safety Data Sheet Status Date** Approved.  
22.06.2016

### Risk Phrases In Full

NC Not classified.  
R48/20 Harmful : Danger of serious damage to health by prolonged exposure through Inhalation.

### Hazard Statements in full.

None

### Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.