

SAFETY DATA SHEET- FIREBRICK GROG (0-2mm)

According to regulation (EC) No 1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Firebrick Grog (0-2mm)

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

Use of the substance/mixture

Primarily added to clay bodies to give excellent thermal shock qualities.

1.3 Details of the supplier of the safety data sheet

Valentine Clays LTD

Valentine Way

Stoke on Trent

ST4 2FJ

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1.4 Emergency Telephone Number

+44 (0)1782 271200

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)- Physical and chemical hazards- not classified

Human health- not classified

Environment- not classified

The full text for all R-phrases and hazard statements are displayed in section 16.

2.2 Label elements

Label in accordance with (EC) No. 1272/2008: no pictogram required

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

Section 3: Composition/information on ingredients

3.1 Substances

Name	%	CAS No	EC No	Classification	
				Regulation (EC) No. 67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]
Mullite	~25	1302-93-8	215-113-2	Not classified	Not classified
Amorphous silica	~55	7631-86-9	-	Not classified	Not classified
Aluminium Oxide	~10	1344-28-1	215-691-6	Not classified	Not classified
Quartz	<5	14808-60-7	238-878-4	Not classified	Not classified
Crystobalite	<5	14464-46-1	238-455-4	Not classified	Not classified
Zircon	<3	1490-68-2	239-019-6	Not classified	Not classified

The Full Text for all R-Phrases are Displayed in Section 16

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Section 4: First Aid Measures

4.1 Description of first aid measures

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

After Ingestion- Rinse mouth thoroughly. Get medical attention if any discomfort continues.

After Eye Contact- Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

After Skin Contact- Wash skin with soap and water. Get medical attention if irritation persists after washing.

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms noted.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing Media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products- None under normal conditions.

5.3 Advice for Fire Fighters

Special firefighting procedures- No specific firefighting procedures given.

Section 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet.

6.2 Environmental Precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.

6.4 Reference to other sections

For personal protection see section 8. For waste disposal see section 13.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

7.2 Conditions for Safe Handling, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3 Specific End Use(s)

The identified uses for this product are detailed in section 1.2

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Section 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Name	Std	TWA- 8hrs		STEL- 15 min		Notes
Mullite	WEL		2.0 mg/m3			
Amorphous phase	WEL		6.0 mg/m3			
Aluminium Oxide	WEL		10.0 mg/m3			
Quartz	WEL		0.1 mg/m3			
Crystobalite	WEL		0.1 mg/m3			
Zircon	WEL		5.0 mg/m3		10.0 mg/m3	As Zr

WEL = Workplace Exposure Limit

Ingredient comments

Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu.

8.2 Protective Equipment



Engineering Measures

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.

Hand Protection

No specific hand protection noted, but gloves may still be advisable.

Eye Protection

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

Other Protection

Provide eyewash station.

Hygiene Measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Section 9: Physical and Chemical Properties

9.1 Information on basic and physical and chemical properties

Appearance- Granular powder, dust

Colour- Creamy

Odour- Odourless

Solubility- Insoluble in water

Melting point (oC)- ~1600

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Relative Density- 2.09 g/cm³

9.2 Other information

Not relevant

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.

10.3 Possibility of hazardous reactions

Not relevant

10.4 Conditions to avoid

No specific conditions are likely to result in a hazardous situation

10.5 Incompatible materials

Materials to avoid: No specific groups of materials are likely to react to produce a hazardous situation.

10.6 Hazardous decomposition products

None under normal circumstances

Section 11: Toxicological Properties

11.1 Information on toxicological effects

Other health effects- This substance has no evidence of carcinogenic properties.

Acute toxicity

Acute toxicity (Oral LD50)- Not relevant

Acute toxicity (Dermal LD50)- Not relevant

Acute toxicity (Inhalation LC50)- Not relevant

Inhalation- Dust in high concentrations may irritate the respiratory system.

Ingestion- May cause discomfort if swallowed.

Skin contact- Powder may irritate skin.

Eye contact- Particles in the eyes may cause irritation and smarting.

Section 12: Ecological Information

Ecotoxicity- Not regarded as dangerous for the environment.

12.1 Acute fish toxicity

Not considered toxic to fish.

12.2 Persistence and degradability

Degradability: The product is not readily biodegradable.

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12.3 Bio accumulative potential

The product is not bioaccumulating.

12.4 Mobility in soil

Not relevant, due to the form of the product.

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

None known

Section 13: Waste Disposal

13.1 Waste treatment methods

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

Section 14: Transport Information

Road transport notes- Not classified

Rail transport notes- Not classified

Sea transport notes- Not classified

Air transport notes- Not classified

14.1 UN Number

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

14.2 UN proper shipping name

Not classified for transportation.

14.3 Transport and hazard class(es)

Not classified for transportation.

14.4 Packing group

Not classified for transportation.

14.5 Environmental hazards

Environmentally hazardous substances / marine pollutant: no

14.6 Special precautions for user:

Not classified for transportation.

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

Not applicable.

Section 15: Regulatory Information

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

Approved code of practice- Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes- Workplace Exposure Limits EH40.

EU Legislation- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending

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Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2 Chemical Safety Assessment

Not applicable. No chemical safety assessment has been carried out.

Section 16: Other Information

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of workplace risk associated with product(s) used as required under any other Health and Safety Regulation.

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

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