Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Dry Ground Frit- 362642**
Chemical name	Frit.
Synonyms	**Calcium Borate Frit, HM192**
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

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2. Composition

Component	CAS	EINECS	% of composition
Frits, chemicals	65997-18-4	2660476	100

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3. Health Hazard Identification

Inhalation	Excessive exposure may cause symptoms of chronic lung disease.
Ingestion	Product of low solubility in body fluids and likely to be of low acute toxicity.
Eyes	May cause physical irritation and inflammation.
Skin	Not a primary irritant. Any abrasive powder may give minor irritation.

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4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention.
Ingestion	Do not induce vomiting, seek medical advice.
Eyes	Wash immediately with copious amounts of water. Seek medical attention is irritation persists.
Skin	Wash affected areas with water. If irritation persists, seek medical attention

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5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions. The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.
Special Exposure hazard	None.
Protective equipment	None other than required for surrounding fire conditions.

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6. Accidental Release Measures

Leaks & Spills	Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter or by damping down and scooping in to a receptacle.
Protective equipment	Respiratory protective equipment.

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7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition)
Storage	Store in dry area

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8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	White powder, odourless
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (Insoluble in water)
Melting point (ºC)	Not available

10. Stability & Reactivity

Chemical stability	The material is stable
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicology Information

Acute toxicology	LD_{50} Oral	>2000 mg/kg
	LD_{50} Dermal	Not known
	LD_{50} Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs.	

12. Ecological information

Ecotoxicity	Not known.
Persistence	Chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
ADR		Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory information

EC Supply Labelling	None required by directive 88/379/EEC and subsequent amendments.
R-Phrases	None.
S-Phrases	Optional for dusty powders: S20/21 When using do not eat, drink or smoke. S38 In case of insufficient ventilation wear suitable respiratory equipment.

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Dusts: Total inhalable	10	
respirable	5	

* refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

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16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

26.08.21

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

(cosh30)

1. Identification of the preparation/Supplier reference

Trade Name	**F3110 High Soda Frit**
Chemical name	None
Synonyms	None
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

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2. Composition

Component	CAS	EINECS	% of composition
ceramic frit (ground)	65997-18-4		100%

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3. Health Hazard Identification

Inhalation	Excessive exposure may cause symptoms of chronic lung disease
Ingestion	The product is of low solubility in body fluids and it is likely to be of low acute toxicity
Eyes	May cause physical irritation and inflammation
Skin	The material is not a primary irritant but as with any abrasive powder it may give rise to minor irritation

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4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention
Ingestion	Do not induce vomiting, seek medical advice
Eyes	Wash immediately with copious amounts of water
Skin	Wash affected areas with water

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5. Fire Fighting Measures

Extinguishing Media	It is compatible with standard fire fighting technique (eg use of water carbon dioxide, dry powder, sand and chemical foam extinguishers
Special Exposure hazard	None
Personal protective equipment	None other than required for surrounding fire condition

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6. Accidental Release Measures

Leaks & Spills	Collect dry material by wet sweeping or vacuum with efficient particulate

	filter
Personal protective equipment	Respiratory protective equipment

7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material
Storage	Store in dry area

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	Odourless, off white powder
Flash point (ºC)	Not applicable
Flammability	Not known
Explosive properties	Non explosive
Oxidising properties	None
Specific gravity	2-3
pH value	9.3
Melting point (ºC)	930ºC* between 900ºC and 1180ºC

10. Stability & Reactivity

Chemical stability	The material is stable
Conditions/materials to avoid	Not known
Hazardous decomposition products	Not known
Hazardous polymerization products	None

11. Toxicology Information

Acute toxicology	LD_{50} oral (rats)	>2000mg/kg
	LD_{50} dermal	not known
	LD_{50} inhalation	not known
Health effects	Prolonged or repeated exposure above occupational exposure standards may cause fibrosis of the lungs	

12. Ecological information

Ecotoxicity	Not known
Persistence	The product is chemically stable and will persist in the environment

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste Regulations 1996). Landfill is the most appropriate method.

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14. Transport Information

UN/SI No.		None
UN Class		Not restricted
Packing group		Not restricted
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air	ICAO	Not restricted

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15. Regulatory information

EC Supply Labelling	None required by directive 88/379/EEC
R-Phrases	None
S-Phrases	Optional for dusty powders S20/21 when using do not eat, drink or smoke S38 in case of insufficient ventilation wear suitable respiratory equipment
UK Occupational exposures limits*	Mg/m^3 8 hr TWA % in product

* refer to HSE Guidance note EH40

In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitutes the user's assessment of workplace risk

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16. Other information

References

COSHH ACOP	HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994
CHIP 96	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996
CHIP SDS ACOPS	HSC Approved Code of Practice for Safety data Sheets in accordance with regulation 6 of the CHIP regulations
HSE EH40	HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSH regulations

Footnote

LIABILITY

Such information is the best of Bath Potters' Supplies knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of

completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.
THIRD PARTY MATERIALS
Insofar as materials not manufactured or supplied by Bath Potters' Supplies are used in conjunction with, or instead of Bath Potters' Supplies materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Bath Potters' Supplies materials in conjunctions with other materials.

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17. National Legislation

UK Legislation
SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993
Environmental Protection (Duty of Care) regulations 1992 SI 2839
Carriage of Dangerous goods by Road and Rail Regulations 1994
Control of pollution Act 1974
Environmental Protection Act 1990
Highly Flammable Liquids and Petroleum Spirit Regulations 1972
EH40 Occupational Exposure Limits
SI1988/1657 The Control of Substances Hazardous to Health Regulations

Note - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations

Important notes

Design CHIP-002

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request.

26.08.21

POTCLAYS - SAFETY DATA SHEET

according to Regulation (EC) No. 1272/2008

2272 Ferro Frit

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

1.1 Product identifier

This safety data sheet pertains to the following products:
2272 Ferro Frit

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

Decoration of ceramic products.

1.3 Details of the supplier of the safety data sheet

Potclays Limited,
Brickkiln Lane, Stoke-on-Trent, Staffordshire, ST4 7BP
Tel. 01782 219816
E-mail: sales@potclays.co.uk
Internet: www.potclays.co.uk

1.4 Emergency telephone number

Telephone: +44 (1782) 219816
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Classification (EC 1272/2008)
Not Classified

2.2 Label elements

Labelling according to EC regulation 1272/2008 (CLP)

Hazard statements:
NA

SECTION 3: Composition / information on ingredients

3.1 Substances

EcNo.	Chemical Name	CAS No.	Index No.	Percentage Composition

3.2 Mixtures

Composition comments Only ingredients listed above are notifiable for this product. If none are shown then all ingredients are exempt.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Inhalation Unlikely route of exposure as the product does not contain volatile substances.
Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.
Skin contact Wash skin thoroughly with soap and water.
Eye contact Rinse with water.

4.2. Most important symptoms and effects, both acute and delayed

General information
N/A

4.3. Indication of any immediate medical attention and special treatment needed
No specific first aid measures noted.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Extinguishing media
The product is non-combustible. No specific extinguishing media is needed.

5.2 Special hazards arising from the substance or mixture
Specific hazards
Non combustible. No hazardous thermal decomposition.

5.3 Advice for firefighters
Special Fire Fighting Procedures
No specific fire-fighting protection is required. Use an extinguishing agent suitable for the surrounding fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions
Environmental precautions Please read Section 2 completely. If any environmental warnings such as; H411 or H412 are listed in Section 2, please use appropriate procedures when disposing of product and
container. Do not put materials into waterways or sewers.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up Collect spillage for reclamation or absorb in vermiculite, dry sand or similar material.

6.4. Reference to other sections
Reference to other sections For waste disposal, see Section 13. For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Usage precautions Read label before use. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions Store in tightly-closed, original container in a dry and cool place.

7.3. Specific end use(s)
Usage Description
If you require advice on specific uses, please contact your supplier or check the Good Practice Guide referred to in section 16.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredient comments
Only ingredients listed in Section 3 are notifiable for this product. If none are shown then all ingredients are exempt.

8.2 Exposure controls

Engineering measures
Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.
Respiratory equipment
In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the

requirements of European or national legislation.
Hand protection
For prolonged or repeated skin contact use suitable protective gloves. PVC or rubber gloves are recommended.
Eye protection
Use eye protection. Goggles/face shield are recommended. Contact lenses should not be worn when working with this product.
Hygiene measures
When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
Skin protection
No specific requirement. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Various.
Odour	Almost odourless.
Relative density	Greater than 1

9.2. Other information
No information required.

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
Not applicable.
10.4. Conditions to avoid
No particular incompatibility.
10.5. Incompatible materials
Materials To Avoid
No specific, or groups of materials are likely to react to produce a hazardous situation.
10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Inhalation
N/A
Ingestion
No harmful effects expected in amounts likely to be ingested by accident.
Skin contact
N/A
Eye contact
Particles in the eyes may cause irritation and smarting.

POTCLAYS - SAFETY DATA SHEET

according to Regulation (EC) No. 1272/2008

SECTION 12: Ecological information

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l	>1000
EC 50, 48 Hrs, Daphnia, mg/l	>1000
IC 50, 72 Hrs, Algae, mg/l	>1000

12.2. Persistence and degradability

Degradability
The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility:
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

General information
This mineral can be disposed of as a non toxic/inactive material in approved landfill sites in accordance with local regulations. Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

13.1. Waste treatment methods

Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.

SECTION 14: Transport information

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

Not applicable.

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

No information required.

POTCLAYS - SAFETY DATA SHEET

according to Regulation (EC) No. 1272/2008

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. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code Of Practice
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.
EU Legislation
Exempted in accordance with Annex V.7
National Regulations
Workplace Exposure Limits 2005 (EH40)
Water hazard classification
NWG

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information
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.
A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission’s financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from http://www.nepsi.eu and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.
Health & Safety Executive: Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that “Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as "silicosis"." In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

Dioxins
The material may contain trace amounts (parts per trillion) of naturally occurring dioxin congeners (PCDD, PCDF) including TCDD. 2, 3, 7, 8. TCDD has been classified as a known human carcinogen by the IARC in Monograph 69 (1997). If this material is used for food, feed, or cosmetic purposes, it is highly recommended to check whether it fulfils the requirements of relevant legislation, in particular with regards to dioxins content.

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Dry Ground High Alkaline Frit- 361187**
Chemical name	Frit.
Synonyms	High Alkaline Frit, "T" Frit
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

2. Composition

Component	CAS	EINECS	% of composition
Frits, chemicals	65997-18-4	2660476	100

3. Health Hazard Identification

Inhalation	Excessive exposure may cause damage to the lungs and kidneys.
Ingestion	Product of low solubility in body fluids and likely to be of low acute toxicity.
Eyes	May cause physical irritation and inflammation.
Skin	Not a primary irritant. Any abrasive powder may give minor irritation.

4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention.
Ingestion	Do not induce vomiting, seek medical advice.
Eyes	Wash immediately with copious amounts of water. Seek medical attention is irritation persists.
Skin	Wash affected areas with water. If irritation persists, seek medical attention

5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions. The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.
Special Exposure hazard	In the event of fire the product may emit harmful or toxic fumes.
Protective equipment	None other than required for surrounding fire conditions.

6. Accidental Release Measures

Leaks & Spills	Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter or by damping down and scooping in to a receptacle.
Protective equipment	Respiratory protective equipment.

7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition)
Storage	Store in dry area

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	White powder, odourless
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (Insoluble in water)
Melting point (ºC)	Not available

10. Stability & Reactivity

Chemical stability	The material is stable
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicology Information

Acute toxicology	LD_{50} Oral	>2000 mg/kg
	LD_{50} Dermal	Not known
	LD_{50} Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause lung or kidney damage.	

12. Ecological information

Ecotoxicity	Not known.
Persistence	Chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
ADR		Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory information

EC Supply Labelling	Harmful $\mathbf{X_n}$	
R-Phrases	R20/22	Harmful by inhalation and if swallowed.
	R33	Danger of cumulative effects.
S-Phrases	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using do not eat, drink or smoke.
	S22/23	Do not breath dust or fumes/spray
	S28	After contact with skin wash with plenty of water.

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Dusts: Total inhalable	10	
respirable	5	
Barium compounds (Ba)	0.5	5.5

* refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

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16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

26.08.21

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Lead Bisilicate**
Chemical name	None
Synonyms	None
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE Tel: 01761 411077 E:mail: sales@bathpotters.co.uk
Emergency numbers	

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2. Composition

Component	CAS	EINECS	% of composition
frits, chemicals	65997-18-4	2660476	100

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3. Health Hazard Identification

Inhalation	:	Excessive exposure may cause chronic lung disease and lead poisoning.
Ingestion	:	The product is of low solubility in body fluids and it is likely to be of low acute toxicity.
Eyes	:	May cause physical irritation and inflammation.
Skin	:	The material is not a primary irritant but as with any abrasive powder it may give rise to minor irritation

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4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen clothing and seek medical attention.
Ingestion	Do not induce vomiting, seek medical advice.
Eyes	Wash immediately with copious amounts of water.
Skin	Wash affected areas with water.

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5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions.
Special Exposure hazard	In the event of fire, the product may emit harmful or toxic flumes
Protective equipment	Self-contained breathing apparatus.

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6. Accidental Release Measures

Leaks & Spills	Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle.
Protective equipment	**Respiratory protective equipment**

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7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used**.** Wash thoroughly after handling the material
Storage	Store in a dry area

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits arc not exceeded. Local Exhaust Ventilation is preferable to personal protection
Personal protective equipment	Where necessary, suitable personal protection should be used (e.g. overalls, gloves. mask).

9. Physical & Chemical properties

Appearance & Odour	White crystal, odourless.
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (Insoluble in water)
Melting point (ºC)	Not available.

10. Stability & Reactivity

Chemical stability	The material is stable.
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicology Information

Acute toxicology	LD_{50} Oral	>2000 mg/kg
	LD_{50} Dermal	Not known
	LD_{50} Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards, may cause Lead to accumulate in the body. In serious cases this may cause anaemia and damage to the kidneys and central nervous system. Lead in the blood of pregnant women may affect the development of the unborn child. Persons exposed to lead compounds should have regular health checks which should include Lead in Blood Monitoring.	

12. Ecological information

Ecotoxicity	Not known
Persistence	The product is chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not restricted
UN Class		Not restricted
Packing group		Not restricted
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air	ICAO	Not restricted

15. Regulatory information

EC Supply Labelling	**Toxic T**	
R-Phrases	R20/22	Harmful by inhalation and if swallowed.
	R33	Danger of cumulative effects.
	R61	May cause harm to the unborn child.
S-Phrases	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using do not eat, drink or smoke.
	S22/23	Do not breath dust or fumes/spray

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Lead compounds (as Pb)	0.15	58

* Refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

26.08.21

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**Lead Sequisilicate Frit - 231030**
Chemical name	Frit.
Synonyms	None.
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE Tel: 01761 411077 E:mail: sales@bathpotters.co.uk
Emergency numbers	

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2. Composition

Component	CAS	EINECS	% of composition
Frits, chemicals	65997-18-4	2660476	100

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3. Health Hazard Identification

Inhalation	Excessive exposure may cause chronic lung disease and lead poisoning.
Ingestion	Product of low solubility in body fluids and likely to be of low acute toxicity.
Eyes	May cause physical irritation and inflammation.
Skin	Not a primary irritant. Any abrasive powder may give minor irritation.

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4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention.
Ingestion	Do not induce vomiting, seek medical advice.
Eyes	Wash immediately with copious amounts of water. Seek medical attention is irritation persists.
Skin	Wash affected areas with water. If irritation persists, seek medical attention

---

5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions. The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.
Special Exposure hazard	In the event of fire the product may emit harmful or toxic fumes.
Protective equipment	Self-contained breathing apparatus.

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6. Accidental Release Measures

Leaks & Spills	Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter or by damping down and scooping in to a receptacle.
Protective equipment	Respiratory protective equipment.

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7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material Local exhaust ventilation is recommended to comply with occupational exposure limits (refer to Guidance Note EH40 - latest edition)
Storage	Store in dry area

---

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	White powder, odourless
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (Insoluble in water)
Melting point (ºC)	Not available

10. Stability & Reactivity

Chemical stability	The material is stable
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicology Information

Acute toxicology	LD_{50} Oral	Not known
	LD_{50} Dermal	Not known
	LD_{50} Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause lead to accumulate in the body. In serious cases this may cause anaemia and damage to the kidneys and central nervous system. Lead in the blood stream of pregnant women may affect the unborn child. Persons exposed to lead compounds should have regular health checks which should include lead in blood monitoring,	

12. Ecological information

Ecotoxicity	Not known.
Persistence	Chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
ADR		Not classified

Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory information

EC Supply Labelling	**Toxic T (in accordance with CHIP 2)**	
R-Phrases	R20/22	Harmful by inhalation and if swallowed.
	R33	Danger of cumulative effects.
	R61	May cause harm to the unborn child.
S-Phrases	S13	Keep away from food, drink and animal feeding stuffs.
	S20/21	When using do not eat, drink or smoke.
	S22/23	Do not breath dust or fumes/spray

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Lead compounds (as Pb)	0.15	63%

* refer to HSE Guidance note EH40
All products containing lead compounds are subject to the Control of Lead at Work Regulations 1980, via the H.S.C. Approved Code of Practice 1985.

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

26.08.21

BATH POTTERS SUPPLIES

MATERIAL SAFETY DATA SHEET

1. Identification of Preparation/Company.

Trade name	:	**Low Expansion Frit**
Chemical name	:	borosilicate glass
Synonyms	:	borosilicate frit, w/g leadless transparent frit

Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

2. Composition.

Component	C.A.S.	EINECS	% of composition

A single borosilicate glass frit of no specific significant hazards …treat it as nuisance dust.

3. Health Hazard Identification.

Inhalation	:	Excessive exposure may cause symptoms of chronic lung disease.
Ingestion	:	The product is of low solubility in body fluids and it is likely to be of low acute toxicity.
Eyes	:	May cause physical irritation and inflammation.
Skin	:	The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation.

4. First Aid Measures.

Inhalation	:	Remove patient to fresh air, loosen clothing, seek medical attention.
Ingestion	:	Do not induce vomiting, seek medical advice.
Eyes	:	Wash immediately with copious amounts of water.
Skin	:	Wash affected areas with water.

5. Fire-fighting Measures.

Extinguishing media	:	Suitable for surrounding fire conditions.
Special exposure hazard	:	None.
Personal protective equipment	:	None other than required for surrounding fire conditions.

6. Accidental Release Measures.

Leaks & spills	:	Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle.
Personal protective equipment	:	Respiratory protective equipment.

7. Handling & Storage.

Handling	:	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material.
Storage	:	Store in a dry area.

8. Exposure Controls/Personal Protective Equipment.

Engineering controls	:	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is preferable to personal protection.
Personal protective equipment:		Where necessary, suitable personal protection should be used (e.g. overalls, gloves, mask).

9. Physical & Chemical Properties.

Appearance & odour	:	white powder, odourless.
Flash point (°C)	:	Not applicable.
Flammability	:	Not applicable.
Explosive properties	:	Non-explosive.
Oxidising properties	:	None
Specific gravity	:	3-5.
pH value	:	7 (Insoluble in water)
Melting point (°C)	:	Not available.

10. Stability & Reactivity.

Chemical stability	:	The material is stable.
Conditions/materials to avoid	:	None known.
Hazardous decomposition products	:	None known.
Hazardous polymerization products	:	None.

11. Toxicological Information.

Acute toxicity	:-	LD_{50} Oral (rat)	Not known.
		LD_{50} Dermal	Not known.
		LC_{50} Inhalation	Not known.
Health effects	:	Prolonged or repeated exposure above Occupational Exposure Limits may cause fibrosis of the lungs.	

12. Ecological Information.

Ecotoxicity	:	Not known.
Persistence	:	The product is chemically stable and will persist in the environment.

13. Disposal.

Dispose of in accordance with current Waste Disposal Regulations
(for U.K. ... Special Waste Regulations 1996).
Landfill is the most appropriate method.

14. Transport Information.

U.N./S.I. No.			:	Not restricted.
U.N. Class			:	Not restricted.
Packing group			:	Not restricted.
Road	:-	U.K.	:	Not restricted.
		A.D.R.	:	Not restricted.
Sea:-	I.M.O.		:	Not restricted.
Air:-	I.C.A.O.		:	Not restricted.

15. Regulatory Information.

EC Supply labelling: None required by relevant EU directives and UK regulations.

R-Phrases : None.

S-Phrases: S22 Do not breathe dust.

U.K Occupational exposure limits*: mg/m^3 8 hr TWA % in product (total dust)

Dusts:

Total inhalable	10	
respirable	4	

* Refer to H.S.E. Guidance note EH40.

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. Other Information.

References :

ADR	European agreement concerning international transport of dangerous goods by road (Accord europeen relatif au transport international des marchandises Dangereuses par Route).
CAS	International reference numbers for chemical substances (Chemical Abstracts Service).
CHIP	Chemicals (Hazard Information and Packaging) regulations 1993, and later revisions.
CHIP SDS ACOP	H.S.C. Approved Code Of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
COSHH ACOP	H.S.C. Approved Code Of Practice for the Control Of Substances Hazardous to Health regulations 1988, and later revisions.
EINECS	European INventory of Existing commercial Chemical Substances.
HSE EH40	H.S.E. Guidance note EH40 on Occupational Exposure Limits (revised annually), to be used in conjunction with the COSHH regulations.
HSWA	Health and Safety at Work Act 1974.
ICAO	International Civil Aviation Organisation.
IMO	International Maritime Organisation.
LC50	Concentration which is lethal by inhalation to 50% of a defined population (eg: rats) within a specified time.
LD50	Dose which is lethal orally or dermally to 50% of a defined population (eg: rats) within a specified time.
UN	United Nations.

Design	:	CHIP-000	Date Created	:	06/11/2000
Issue No.	:	8	Revisions	:	sections 1, 11, 15, 16.

Since the specific conditions of use of the product are outside the control of the supplier, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information within this safety data sheet is correct to the best of our knowledge and information at the date of publication. The information relates only to the specific product designated and may not be valid for the product if used in combination with any products or any

processes other than those specified in the text.

PRINT DATE… 26.08.21

BATH POTTERS SUPPLIES

MAT ERIAL SAFETY DATA SHEET

1. Identification of Preparation/Company.

Trade name	:	**Soft Borax Frit**
Chemical name	:	borosilicate glass
Synonyms	:	borosilicate frit, w/g leadless transparent frit

Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

2. Composition.

Component	C.A.S.	EINECS	% of composition

A single borosilicate glass frit of no specific significant hazards …treat it as nuisance dust.

3. Health Hazard Identification.

Inhalation	:	Excessive exposure may cause symptoms of chronic lung disease.
Ingestion	:	The product is of low solubility in body fluids and it is likely to be of low acute toxicity.
Eyes	:	May cause physical irritation and inflammation.
Skin	:	The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation.

4. First Aid Measures.

Inhalation	:	Remove patient to fresh air, loosen clothing, seek medical attention.
Ingestion	:	Do not induce vomiting, seek medical advice.
Eyes	:	Wash immediately with copious amounts of water.
Skin	:	Wash affected areas with water.

5. Fire-fighting Measures.

Extinguishing media	:	Suitable for surrounding fire conditions.
Special exposure hazard	:	None.
Personal protective equipment	:	None other than required for surrounding fire conditions.

6. Accidental Release Measures.

Leaks & spills	:	Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle.
Personal protective equipment	:	Respiratory protective equipment.

7. Handling & Storage.

Handling	:	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material.
Storage	:	Store in a dry area.

8. Exposure Controls/Personal Protective Equipment.

Engineering controls : Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded.
Local Exhaust Ventilation is preferable to personal protection.

Personal protective equipment: Where necessary, suitable personal protection should be used (e.g. overalls, gloves, mask).

9. Physical & Chemical Properties.

Appearance & odour	:	white powder, odourless.
Flash point (°C)	:	Not applicable.
Flammability	:	Not applicable.
Explosive properties	:	Non-explosive.
Oxidising properties	:	None
Specific gravity	:	3-5.
pH value	:	7 (Insoluble in water)
Melting point (°C)	:	Not available.

10. Stability & Reactivity.

Chemical stability	:	The material is stable.
Conditions/materials to avoid	:	None known.
Hazardous decomposition products	:	None known.
Hazardous polymerization products	:	None.

11. Toxicological Information.

Acute toxicity :- LD_{50} Oral (rat) Not known.
LD_{50} Dermal Not known.
LC_{50} Inhalation Not known.

Health effects : Prolonged or repeated exposure above Occupational Exposure Limits may cause fibrosis of the lungs.

12. Ecological Information.

Ecotoxicity	:	Not known.
Persistence	:	The product is chemically stable and will persist in the environment.

13. Disposal.

Dispose of in accordance with current Waste Disposal Regulations
(for U.K. ... Special Waste Regulations 1996).
Landfill is the most appropriate method.

14. Transport Information.

U.N./S.I. No.		:	Not restricted.
U.N. Class		:	Not restricted.
Packing group		:	Not restricted.
Road :-	U.K.	:	Not restricted.
	A.D.R.	:	Not restricted.
Sea:-	I.M.O.	:	Not restricted.
Air:-	I.C.A.O.	:	Not restricted.

15. Regulatory Information.

EC Supply labelling: None required by relevant EU directives and UK regulations.

R-Phrases : None.

S-Phrases: S22 Do not breathe dust.

U.K Occupational exposure limits*:	mg/m^3 8 hr TWA	% in product (total dust)
Dusts:		
Total inhalable	10	
respirable	4	

* Refer to H.S.E. Guidance note EH40.

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16. Other Information.

References :

ADR	European agreement concerning international transport of dangerous goods by road (Accord europeen relatif au transport international des marchandises Dangereuses par Route).
CAS	International reference numbers for chemical substances (Chemical Abstracts Service).
CHIP	Chemicals (Hazard Information and Packaging) regulations 1993, and later revisions.
CHIP SDS ACOP	H.S.C. Approved Code Of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
COSHH ACOP	H.S.C. Approved Code Of Practice for the Control Of Substances Hazardous to Health regulations 1988, and later revisions.
EINECS	European Inventory of Existing commercial Chemical Substances.
HSE EH40	H.S.E. Guidance note EH40 on Occupational Exposure Limits (revised annually), to be used in conjunction with the COSHH regulations.
HSWA	Health and Safety at Work Act 1974.
ICAO	International Civil Aviation Organisation.
IMO	International Maritime Organisation.
LC50	Concentration which is lethal by inhalation to 50% of a defined population (e.g.: rats) within a specified time.
LD50	Dose which is lethal orally or dermally to 50% of a defined population (e.g.: rats) within a specified time.
UN	United Nations.

Design	:	CHIP-000	Date Created	:	06/11/2000
Issue No.	:	8	Revisions	:	sections 1, 11, 15, 16.

Since the specific conditions of use of the product are outside the control of the supplier, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information within this safety data sheet is correct to the best of our knowledge and information at the date of publication. The information relates only to the specific product designated and may not be valid for the product if used in combination with any products or any

processes other than those specified in the text.

PRINT DATE… 26.08.21

POTTERYCRAFTS LIMITED

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

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^3 resp. dust	-	-

Ingredient Comments
Total Inhalable Dust 10mg/m3 - 8hr TWA Total respirable Dust 4mg/m3 - 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/m3.
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

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

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% < PbO ≤ 69%, SiO_2 ≥ 30%, Al_2O_3 ≥ 1%).

Subgroup 5.2 - lead borosilicate frits (40%-60% PbO, SiO_2 > 30%, 1%-20% B_2O_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%
< PbO ≤ 69%, SiO_2 ≥ 30%, Al_2O_3 ≥ 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% < PbO ≤ 69%, CdO ≤ 5%, SiO_2 ≥ 30%, Al_2O_3 ≥ 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_2 and/or without a minimum of 1% of Al_2O_3.
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.

Issued By Product Regulations Dept

Revision Date 22/06/2016

Revision 6

Supersedes date 05/05/2015

SDS No. 000

Safety Data Sheet Status Approved.
Date 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.

Bath Potters' Supplies

MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference

Trade Name	**W/G. SBF Transparent Frit – 2452009P**
Chemical name	Frit.
Synonyms	Standard Borax Frit, 'E' Frit
Supplier	Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate, Radstock, Nr. Bath. BA3 4XE
Emergency numbers	Tel: 01761 411077 E:mail: sales@bathpotters.co.uk

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2. Composition

Component	CAS	EINECS	% of composition
Frits, chemicals	65997-18-4	2660476	100

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3. Health Hazard Identification

Inhalation	Excessive exposure to any dusty residue may cause irritation of the respiratory tract and mucous membranes, and cause symptoms of chronic lung disease.
Ingestion	The product is of low solubility in body fluids and likely to be of low acute toxicity.
Eyes	May cause physical irritation and inflammation.
Skin	Not a primary irritant, but as with any abrasive powder it may give rise to irritation and or sensitisation.

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4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention.
Ingestion	Do not induce vomiting. If the patient is conscious, rinse mouth out with copious amounts of water and seek medical advice.
Eyes	Irrigate immediately with copious amounts of water for 15 minuets, paying particular attention to under the eyelid. Seek medical attention if irritation persists.
Skin	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek medical attention

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5. Fire Fighting Measures

Extinguishing Media	Suitable for surrounding fire conditions. The product is not explosive or combustible. Standard fire fighting techniques only are required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.
Special Exposure hazard	In the event of fire, the product may emit harmful or toxic fumes.
Protective equipment	None other than required for surrounding fire conditions.

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6. Accidental Release Measures

Leaks & Spills	Remove dry materials either by a vacuum cleaner fitted with an efficient particulate filter or by damping down and scooping in to a receptacle.
Protective equipment	Respiratory protective equipment.

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7. Handling & Storage

Handling	Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material. Local exhaust ventilation is recommended to comply with occupational exposure limits

(refer to Guidance Note EH40 - latest edition)

Storage — Store in dry area in a sealed container.

8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is recommended
Personal protective equipment	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties

Appearance & Odour	White powder, odourless
Flash point (ºC)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (Insoluble in water)
Melting point (ºC)	Not available

10. Stability & Reactivity

Chemical stability	The material is stable
Conditions/materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicology Information

Acute toxicology	LD_{50} Oral	>2000 mg/kg
	LD_{50} Dermal	Not known
	LD_{50} Inhalation	Not known
Health effects	Prolonged or repeated exposure to any dust, above Occupational Exposure Standards, may cause fibrosis of the lungs.	

12. Ecological information

Ecotoxicity	Not known.
Persistence	Chemically stable and will persist in the environment.

13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
ADR		Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory information

EC Supply Labelling	None required by directive 88/379/EEC and subsequent amendments.
R-Phrases	None.
S-Phrases	Optional for dusty powders:
	S20/21 When using do not eat, drink or smoke.
	S22/23 do not breath dust or fumes/spray.
	S38 In case of insufficient ventilation wear suitable respiratory equipment.

UK Occupational exposures limits*	Mg/m^3 8 hr TWA	% in product
Dusts: Total inhalable	10	
respirable	5	

* Refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

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16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

26.08.21