



CLAYMAN

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SAFETY DATA SHEET

| | |
|------|-----------------|
| 5681 | LEAD BISILICATE |
|------|-----------------|

| 1. Identification of substance/preparation and of the company undertaking | |
|---|----------------------|
| Trade Name: | Lead Bisilicate Frit |
| Chemical Name: | Frit |
| Synonyms: | None |

| 2. Composition /information on ingredients | | | |
|---|------------|---------|------------------|
| Component | CAS | EINECS | % of composition |
| Frits, chemicals | 65997-18-4 | 2660476 | >95 (57% as Pb) |
| The product is labelled as 'Toxic' due to lead being classified as a Category 1 reproductive toxin (see section 15) | | | |

| 3. Hazards Identification | |
|---------------------------|--|
| Inhalation | Excessive exposure may cause damage to the lungs and kidneys, chronic disease and lead poisoning. |
| Ingestion | The product is partially soluble in body fluids but 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. |
| Environment | Considered of low toxicity (low solubility lead frit). |

| 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. |

| 5. Fire Fighting Hazards | |
|-------------------------------|--|
| Extinguishing media | Suitable for surrounding fire conditions. |
| Special Exposure hazard | In the event of fire, the product may emit harmful or toxic fumes. |
| Personal protective equipment | Self contained breathing apparatus. |



| 6. Accidental Release Measure | |
|-------------------------------|--|
| Leaks and Spills | Use suitable 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 dry area away from foodstuff. |

| 8. Exposure Control/Personal Protection | | |
|---|--|--------------|
| Engineering controls | Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. | |
| Personal protective equipment | Where necessary suitable personal protection should be used (eg overalls, gloves, particulate filter respirator to EN143 or EN149, eye protection for dusts to EN166.) | |
| UK Occupational exposure limits (Refer to HSE Guidance note EH40) | Mg/m ³ 8 hr TWA | % in product |
| Lead compounds (as Pb) | 0.15 | 57 |

| 9. Physical & Chemical Properties | |
|-----------------------------------|----------------------------|
| Appearance and Odour | Off-white powder odourless |
| Flash point (°C) | Not applicable |
| Flammability | Not applicable |
| Explosive properties | Non-explosive |
| Oxidizing 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 toxicology | LD50 Oral (rat) | Not known |
| | LD50 Dermal | Not known |
| | LC50 Inhalation | Not known |
| Health effects | Prolonged or repeated exposure above occupational exposure standards may cause lead to accumulate in the body. In serious cases may cause anaemia and damage to the kidneys, central system and impair reproductive fertility. Lead in the blood of pregnant 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 Considerations | |
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| Dispose in accordance with current waste Disposal regulations (for UK – Control of Pollution {special Waste} Regulations 1980). 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 | (in accordance with CHIP 2) |
| R Phrases | R61 | May cause harm to unborn child. |
| | R20/22 | Harmful by inhalation and if swallowed. |
| | R33 | Danger of cumulative effects. |
| | R62 | Possible risk of impaired fertility. |
| S phrases | S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) |
| | S53 | Avoid exposure – obtain special instructions before use. |
| <p>All products containing lead compounds are subject to the Control of Lead at Work Regulations via the corresponding HSC Approved Code of Practice.</p> <p>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 constitute the user's assessment of workplace risk.</p> | | |

| 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 not EH40 on Occupational Exposure Limits to be used in conjunction with the COSHH regulations. |