

MATERIAL SAFETY DATA SHEET

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| 1 | Brown Fused Aluminium Oxide (MSDS 4) | Aluminium Oxide-Brown Fused Alumina-Type NK CAS: 1344-28-1 EINECS: 215-691-6 Aluminium Oxide Al ₂ O ₃ | | | | | | | | | | |
| | Description | Abrasive and refractory synthetic aggregate. | | | | | | | | | | |
| | Supplied by: | Lapmaster International Ltd Lee Mill Industrial Estate Ivybridge Devon PL21 9EN Tel: + 44 1752 893191 Fax: + 44 1752 896355 | | | | | | | | | | |
| 2 | Composition | <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Al₂O₃</td> <td style="text-align: right;">95.20%</td> </tr> <tr> <td>TiO₂</td> <td style="text-align: right;">2.90%</td> </tr> <tr> <td>Fe₂O₃</td> <td style="text-align: right;">0.20%</td> </tr> <tr> <td>CaO – MgO</td> <td style="text-align: right;">0.30%</td> </tr> <tr> <td>SiO₂</td> <td style="text-align: right;">1.20%</td> </tr> </table> | Al₂O₃ | 95.20% | TiO ₂ | 2.90% | Fe ₂ O ₃ | 0.20% | CaO – MgO | 0.30% | SiO ₂ | 1.20% |
| Al₂O₃ | 95.20% | | | | | | | | | | | |
| TiO ₂ | 2.90% | | | | | | | | | | | |
| Fe ₂ O ₃ | 0.20% | | | | | | | | | | | |
| CaO – MgO | 0.30% | | | | | | | | | | | |
| SiO ₂ | 1.20% | | | | | | | | | | | |
| 3 | Hazards Identification: | None specified. | | | | | | | | | | |
| 4 | <u>First Aid Measures:</u> | | | | | | | | | | | |
| a) | EYE CONTACT: | Sharp particles can cause irritation. Flush with clean water and seek medical advice if irritation continues. Use suitable eye protection as required. | | | | | | | | | | |
| b) | SKIN CONTACT: | No harmful effects wash with soap and water. | | | | | | | | | | |
| c) | INHALATION: | No toxic effects. Classified as nuisance material. | | | | | | | | | | |
| d) | INGESTION: | No toxic effects, treat symptomatically and seek medical advice as necessary. | | | | | | | | | | |
| 5 | Fire-fighting Measures: | No special precautions necessary. | | | | | | | | | | |

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| 6 | Accidental Release Measures: | Clean spillage's as appropriate. Use vacuum cleaner for fine aggregate sizes. |
| 7 | Handling and Storage: | |
| a) | Handling: | Avoid creating unnecessary excess dust during handling. |
| b) | Storage: | No special storage requirements – shelf life indefinite. |
| 8 | Exposure Controls/Personal Protection: | |
| a) | Exposure Control Limits: (8 hour TWA) | 10mg/m ³ total dust. 5mg/m ³ respirable dust. |
| b) | Protective Equipment: | Use appropriate dust mask in dusty operations. (avoid creating dust if possible) Wear appropriate eye protection during handling. |
| 9 | Physical and Chemical Properties: | |
| Melting Point: | 2050°C | |
| S.G: | 3.95 g/cm ³ | |
| Flashpoint: | Not applicable | |
| Odour: | None | |
| Boiling Point: | >3000°C | |
| Solubility: | Insoluble | |
| Colour: | Brown, dark blue/purple. | |
| Hazardous decomposition | None | |
| Products: | None | |
| Hazardous reactions: | None | |
| 10 | Stability and Reaction: | Material is stable and inert. |

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| 11 | Toxicological Information | Classified as non-toxic TD Lo 90mg/kg (rat.intra-pleural) |
| 12 | Ecological Information: | No specific effects. |
| 13 | Disposal Considerations: | No special precautions required – follow local requirements. |
| 14 | Transport Information: | No specific requirements |
| 15 | Regulatory Information: | Current dust exposure limits to be found in latest edition of Health & Safety Executive Guidance Note EH40. |
| 16 | Other Information: | Aluminium oxide (Brown Fused Alumina Type NK) contains no free silica and is classified as nuisance material. |
| <p>This information is taken from sources believed to be accurate. Lapmaster International Ltd, however, makes no warranty as to the accuracy of the information or suitability of the recommendations as to your operations and assumes no liability to any user thereof.</p> | | |
| <p>Date: August 2001</p> | | |