

Trade name: Erkolen**Safety data sheet in accordance with 91/155/EEC**

Date of printing : 16.11.2004

01. Identification

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| 01.01 Product details | |
| 01.01.01. Trade name | Erkolen |
| 01.02. Identification of the manufacturer | |
| 01.02.01. Address | ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler |
| 01.02.02. Information provided by | Chemie |
| 01.02.03. Telephone number | Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92 |
| 01.02.04. Emergency telephone number : | |

02. Composition/information on ingredients

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| 02.01. Chemical characterization | PE Polyethylen + SiO ₂ , Oelsäureamid |
| 02.02. Substance / product identification | - |
| 02.03. Hazardous ingredients | None. |
| 02.04. Additional information | - |

03. Hazards possibilities

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| 03.01. Hazard designation | - |
| 03.02. Particular information pertaining specific risk for human / environment | - |

04. First aid measures

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| 04.01. General Information | |
| 04.02. First aid measures / inhalation. | n.a. |
| 04.03. First aid measures / skin contact. | After contact with molten product cool quickly with cold water. |
| 04.04. First aid measures / eye contact. | Separate eyelids, wash the eyes thoroughly with water (15 min.) |
| 04.05. First aid measures / ingestion. | No special measures necessary. |
| 04.06. Advice to doctor | - |

05. Fire-fighting measures

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| 05.01. Suitable extinguishing media | foam, dry powder, carbon dioxide., water spray jet |
| 05.02. Extinguishing media that must not be used for safety reasons | Full water jet |
| 05.03. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases. | n.a. |
| 05.04. Special protective equipment for firefighting | n.a. |
| 05.05. Additional informations (chapter 5) | - |

06. Accidental release measures

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| 06.01. personal precautions. | n.a. |
| 06.02. environmental precautions. | n.a. |
| 06.03. methods for cleaning up/taking up. | Pick up mechanically. |
| 06.04. Additional informations (chapter 6). | - |

07. Handling and storage

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| 07.01. Handling | |
| 07.01.01. Hints on safe handling. | Provide good ventilation of working area (local exhaust ventilation if necessary)., Provide exhaust ventilation if dust is formed. |
| 07.01.02. Hints for protection against fire and explosion. | n.a. |
| 07.02. Storage | |

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| 07.02.01. Requirements for storage rooms and vessels. | Store product in closed containers. |
| 07.02.02. Hints on storage assembly. | n.a. |
| 07.02.03. Further information on storage conditions. | Keep container tightly closed and dry. |
| 07.02.04. Storage category | - |
| 07.02.05. Storage stability | - |
| 07.02.06. Recommended storage temperature | n.a. |

08. Exposure controls/personal protection

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| 08.01. Additional hints on technical system design. | - |
| 08.02. Ingredients with occupational exposure limits to be monitored | - |

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| 08.03. Personal protective equipment Personal protective equipment Persönliche Schutzausrüstung | |
| 08.03.01. Respiratory protection | Dust mask |
| 08.03.02. Hand protection | - |
| 08.03.03. Eye protection | safety glasses |
| 08.03.04. Skin protection | - |
| 08.03.05. General protective and hygiene measures | Do not eat, drink or smoke during work time. |

09. Physical and chemical properties

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| 09.01. Appearance. | |
| 09.01.01. Form | solid |
| 09.01.02. Colour | colourless, opaque |
| 09.01.03. Odour | odourless |

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| 09.02. Safety data | - |
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Changes in physical state

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| Softening temperature | ca. 120 | °C | |
| Flash point | n.b. | °C | ASTM-D 1929-68 |
| Ignition temperature | > 360 | °C | ASTM-D 1929-68 |
| self ignition | | | |
| explosion limits | n.a. | | |
| Upper explosion limit | n.a. | | |
| Vapour pressure | n.a. | mbar | |
| Density | 1,95 | g/cm ³ | 20 °C |
| solubility | insoluble | g/l | |
| Soluble in | n.a. | g/l | |
| pH-Value | n.a. | | |
| Viscosity | n.a. | | |

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| 09.03. Other information (chapter 9.) | - |
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10. Stability and reactivity

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| 10.01. Hazardous reactions | n.a. |
| 10.02. Hazardous decomposition products | Flammable gases/vapours |
| 10.03. Thermal decomposition | > 390 °C |
| 10.04. Additional informations (chapter 10) | - |

11. Toxicological information

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| 11.01. Acute toxicity | |
| 11.01.01. Acute oral toxicity | n.a. |

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| 11.01.02. Acute dermal toxicity | n.a. |
| 11.01.03. Acute inhalational toxicity | n.a. |
| 11.02. Irritant/corrosive effects | |
| 11.02.01. Irritant effect on skin | n.a. |
| 11.02.02. Irritant effect on eyes | n.a. |
| 11.03. Sensitization | |
| 11.04. Effects after repeated or prolonged exposition (subacute, subchronic, cronic) | n.a. |
| 11.08. Other information (chapter 11.) | n.a. |
| 11.09. Experiences made in practice. | n.a. |
| 11.10. General remarks. | - |

12. Ecological information

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| 12.01. Data on elimination (persistence and degradability) : | |
| 12.01.01. Physico-chemical eliminability | n.a. |
| 12.01.02. Biodegradability | n.a. |
| 12.02. Behaviour in environment compartments. | |
| n.b. | |
| 12.03. Ecotoxic effect | |
| 12.03.01. Fish toxicity | n.a. |
| 12.03.02. Daphnia toxicity | n.a. |
| 12.03.03. Algae toxicity | n.a. |
| 12.03.04. Bacteria toxicity | n.a. |
| 12.04. Further ecological information | According to experience, the material has no harmful effect on the environment. |

13. Disposal considerations

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| 13.01. Disposal considerations | |
| 13.01.01. Disposal / product | For recycling, consult waste disposal centres. |
| 13.01.02. Disposal / contaminated packagings. | Uncontaminated packaging may be reused. |
| 13.02. Waste code no. / name of waste (for Germany only) | |
| 57128 | |

14. Transport information

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| 14.01. Land transport ADR/RID | |
| 14.01.01. Class | - |
| 14.01.02. Number/letter | - |
| 14.01.03. Hazard number (Kemler-number) | - |
| 14.01.04. UN number | - |
| 14.01.05. Technical name | - |
| 14.01.06. Remarks | - |
| 14.02. Inland waterways transport ADN/ADNR | |
| 14.02.01. Class | - |
| 14.02.02. Number/letter | - |
| 14.02.03. Category | - |
| 14.02.04. Technical name | - |
| 14.02.05. Remarks | - |
| 14.03. Marine transport IMDG/GGVSee | |
| 14.03.01. Class | - |
| 14.03.02. UN number | - |
| 14.03.03. page | - |
| 14.03.04. EmS | - |
| 14.03.05. MFAG | - |
| 14.03.06. MARINE POLLUTANT | - |

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| 14.03.07. Correct technical name | - |
| 14.03.08. Remarks | - |

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| 14.04. Air transport ICAO/IATA | |
| 14.04.01. Class | - |
| 14.04.02. UN number | - |
| 14.04.03. page | - |
| 14.04.04. Correct technical name | - |
| 14.04.05. Remarks | - |

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| 14.05. Other information (chapter 14.) | - |
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15. Regulatory information

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| 15.01. Labelling in accordance with GefStoffV/EC | The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances. |
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| 15.02. Other regulations | |
| 15.02.01. Restriction of occupation. | - |
| 15.02.02. Decree for case of interference / remarks (for Germany only). | - |
| 15.02.03. Classification according to VbF / remarks (for Germany only). | - |
| 15.02.04. TA-Luft (Ger.) | - |
| 15.02.05. Water Hazard Class (Ger.) | - |
| 15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only) | - |

16. Other information (chapter 16.).

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(n.a. = Not applicable; n.b.= not determined)

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.