

Material safety data sheet



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Date: 16.09.2002
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1. Material and supplier data

- 1.1 Commercial name ***KOTERM PE 1000, KOTERM PE 500, KOTERM PE 300***
1.2 Supplier data ***ISOKON***, proizvodnja in predelava termoplastov, d.o.o.
Mestni trg 5a,
SI 3210 Slovenske Konjice
Tel.: + 386 (0)3 757 11 00, Fax: +386 (0)3 575 45 72

2. Composition on engrredients

- 2.1 Chemical nature: Polyethylene, possibly olefins – copolymer, stabilizing agents, additives.
CAS number: 9002-88-4
2.2 Hazardous ingredients: None.

3. Classification according to hazard

- 3.1 Critical hazards to man and environment None.

4. First aid measures

- 4.1 General instructions The material is not classified as being a dangerous preparation.
4.2 Inhalation When fumes of molten material have been inhaled: move person to fresh air, rest in half upright position, loosen clothing, keep warm. In case of respiratory problems move person to first aid station or hospital for medical treatment.
4.3 Skin contact Any molten material on the skin or any burns should be cooled as quickly as possible by means of cold water. Cover the wound with sterile cloth and move person to first aid station or hospital for medical treatment. Attention: never pull off the molten material from the wound.
4.4 Eye contact Wash affected eyes for at least 15 minutes under running water with eyelids held open.

5. Fire- fighting measures

- 5.1 Classification Moderate inflammable product.
5.2 Suitable extinguishing media Heavy foams forming an aqueous or polymeric film.
5.3 Dry extinguishing media Only in case of incipient fires.
5.4 Unsuitable extinguished media Water jet.
5.5 Can be given off in fire CO, CO₂, carbon black
5.6 Specific hazards Treat that the material as a solid can burn. Moulded parts or solid parts burn slowly with a low smoke density and flaming drips, carbon monoxide and irritating oxygen containing organic substances are released.
5.7 Specific protection equipment Do not approach fire in confined space without positive pressure self contained breathing apparatus and full bunker gear i. e.: bunker coats, helmet with face shield, gloves, rubber boots.
5.8 Complement measures Avoid the genetation of product fines and static electricity.

6. Accidental release measure

- 6.1 Personal precaution Adequate washing facilities, with supplies of mild soap and hand cleaners should be available at all working locations. Solvents should never be used as hand cleaners. Smoking, eating and drinking in working and storage area should be prohibited.
A ventilation system should be installed where:
- melt processing of the material is carried out,
- solid material is being ground or machined,
- any high temperature processing is carried out (e. g. sealing).
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| 6.2 | Environmental precautions | The disposal of this material presents no danger regarding toxicological and / or ecological considerations. The material should not get to canal or natural water. |
| 6.3 | Cleaning up methods | Put into containers for reclaiming or disposal. |
| 6.4 | Complement measures | During regrinding operations the use of a dust mask is advised. |
| 7 | Handling and storage | |
| 7.1 | Handling | Should be noted when the product is handled and pneumatically transported: Protection against fire and explosion. Fine particle material (< 0.125 mm) should not be allowed to accumulate, particularly when transported pneumatically. The product contain combustible polymers. The relevant fire protection thus apply. |
| 8 | Exposure controls/personal protection | |
| 8.1 | Technical equipment | Additional information on the lay-out of technical plant. (see 7) |
| 8.2 | Components with workplace control parameters | None. |
| 8.3 | Personal protective equipment | None. |
| 8.4 | General safety and hygienic measures | When handling the granulate normally dust will not be a problem with respect to breathing. |
| 8.5 | Respiratory protection | Provide appropriate exhaust ventilation at machinery. Gaseous product is greatly overheated. Avoid inhalation. |
| 8.6 | Hand protection | When handling a hot melt heat resistance gloves should be worn. |
| 8.7 | Eye protection | When handling a hot melt heat resistance face shields should be worn. |
| 8.8 | Skin and body protection | The use of apron, boots and/or full protective suit is not prescribed here, it is up to the decision of the processor. |
| 9 | Physical and chemical properties | |
| 9.1 | Appearance | solid (at + 20 °C) |
| 9.1.1 | Form | solid sheet |
| 9.1.2 | Colour | natural, various, depending of the shade |
| 9.1.3 | Odour | almost odourless |
| 9.2 | Safety properties | |
| 9.2.1 | Changes in physical appearance | |
| | Boiling point | N/A |
| | Melting point | 50-140°C |
| 9.2.2. | Lower explosion limit | 20 g/m ³ |
| 9.2.3. | Upper explosion limit | approx. 2000 g/m ³ |
| 9.2.4. | Ignition temperature | >360°C |
| 9.2.5. | Density (23 °C) (DIN 53479) | 0.90 – 0.97 g/cm ³ |
| 9.2.6. | Bulk density (DIN 53466) | 350 - 650 kg/m ³ |
| 9.2.7. | Solubility in water | Insoluble. |
| 10 | Stability and reactivity | |
| 10.1 | Conditions to avoid | There is no possibility of degradation to unstable products under normal circumstances. Only at extreme temperatures (above the decomposition temperature) degradation will occur. |
| 10.2 | Materials to be avoided | There are not any incompatible materials. |
| 10.3 | Thermal decomposition | >390°C |

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| 10.2 | Hazardous reactions | Dust explosion hazard. |
| 10.3 | Hazardous decomposition products | Fine particle material should not be allowed to accumulate, particularly when transported pneumatically. Class: ST1 Monomers, ignitable gases/vapours. |

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| 11 | Toxicological information | |
| 11.1 | Additional information | In our experience and according to our information available to us the product is not harmful to health provided it is correctly handled and processed according to the given recommendations. |

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| 12 | Ecological information | |
| 12.1 | Additional information | The product has not been tested. Due to its consistency and its low water solubility, bio-availability is unlikely. |

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| 13 | Disposal Consideration | |
| 13.1 | Product | Check for possible recycling. Must be dumped or incinerated in accordance with local regulations. |
| 13.2 | | Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned. |

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| 14 | Transport information | Not classified as hazardous under transport regulations. |
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| 15 | Regulatory information | |
| 15.1 | Labelling according to EEC Directives | Not subject to labelling. |
| 15.2 | National legislation/regulation | |

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| 16 | Other information | The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. This material safety datasheet is issued by ISOKON d.o.o. Slov.Konjice, Slovenia, according to directive 91/155/EEC. Additional information and emergency call: <i>ISOKON</i> , proizvodnja in predelava termoplastov, d.o.o. Tel.: + 386 (0)3 757 11 00, Fax: +386 (0)3 575 45 72 |
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Date: 26.02.2002

Signature: