

Material safety data sheet



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1. Material and supplier data

- 1.1 Commercial name **KOTERM PP, ISOFORM PP**
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 Mixture of the substances listed below with harmless additives.
Homopolymer, dyed.
CAS number 9003-07-0 1-propene homopolymer
2.2 Hazardous ingredients None.

3. Classification according to hazard

- 3.1 Information pertaining to particular dangers for man and environment The melted product adheres to the skin and causes burns.
Spilled material may present a slipping hazard.
Possible production of electrostatic chargings when used.
The working steams can irritate the eyes as well as the respiratory tract.
3.2 Classification system This product is according to EEC directive 1999/45, 67/548 and following adjustments not classified as hazardous.

4. First aid measures

- 4.1 General instructions At room temperature the product is neither an irritant nor gives off hazardous vapours. The measures listed below apply to critical situations (Fire, incorrect process conditions).
4.2 Inhalation In case of excessive inhalation of fumes move the person to fresh air. Call for medical help. Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.
4.3 Skin contact After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin. Seek immediate medical advice.
4.4 Eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
4.5 After swallowing No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.

5. Fire- fighting measures

- 5.1 Suitable extinguishing media Water haze, Foam, Carbon dioxide, Chemical powder.
5.2 Unsuitable extinguished media None.
5.3 Specific hazards In case of fire it can release : Water (H₂O), carbon dioxide (CO₂), and when lacking oxygen (O₂), carbon monoxide (CO). The products of the burning are dangerous. The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C).
5.4 Specific protection equipment Put on breathing apparatus.
5.5 Additional information Heat value : 8000 – 11000

6. Accidental release measure

- 6.1 Personal precaution No specific measures are necessary. See point 8.
6.2 Environmental precautions No special measures required. See points 12 and 13.
6.2 Cleaning up methods Small spills: Put into a labelled container and provide safe disposal.
Large spills: Act as during a limited release.
Recycle product or dispose properly. See point 13.
6.4 Additional information Collect spilled polymer: It could cause falls (Danger of slipping).
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7 Handling and storage

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| 7.1 | Information for safe handling | No special requirements necessary, if handled at room temperature. Avoid spilling the product, as this might cause falls. When bringing the material to working temperatures gases might develop, forming: propylene hydrocarbon substances with low molecular weight and their oxidation products solvent residues traces of formaldehyde and acrylaldehyde traces of acids (Formic acid, acetic acid) Provide appropriate ventilation for such processing conditions. Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehyde, formic acid, and acetic acid being significantly below TLV- values. Pay attention during the manufacturing process not to exceed the recommended temperatures, as dyes might release hazardous decomposition products. Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules. |
| 7.2 | Requirements to be met by storerooms and containers | Do not smoke. Take precautionary measures to prevent the formation of static electricity. Ground equipment electrically. Electric safety equipment. Open flames prohibited. Store the product in bags, car silos, container, or large cartons. |
| 7.3 | Information about storage in one common storage facility | Not required. |
| 7.4 | Further information about storage condition | Store container in a well ventilated position. Protect from heat and direct sunlight. Store under dry conditions. Storage containers should be stacked at a maximum of two high. |

8 Exposure controls/personal protection

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| 8.1 | Components with limit values that require monitoring at the workplace | Not required. |
| 8.2 | Additional exposure limit values for possible processing dangers | <p>107-02-8 acrylaldehyde
 OES: Short-term value: 0.70 mg/m³, 0.3 ppm
 Long-term value: 0.23 mg/m³, 0.1 ppm</p> <p>50-00-0 formaldehyde
 MEL: Short-term value: 2.5 mg/m³, 2 ppm
 Long-term value: 2.5 mg/m³, 2 ppm</p> <p>64-19-7 acetic acid
 OES: Short-term value: 37 mg/m³, 15 ppm
 Long-term value: 25 mg/m³, 10 ppm
 ILV</p> <p>64-18-6 formic acid
 OES: Long-term value: 9.6 mg/m³, 5 ppm
 ILV</p> |
| 8.3 | Additional information | See points 7 and 9. |
| Personal protective equipment | | |
| 8.4 | General protective and hygienic measures | Do not eat or drink while working. Keep away from tobacco products. Provide system for collecting the vapors which are created during the working process. |
| 8.5 | Protection of hands | Heat resistant gloves. |
| 8.6 | Material of gloves | The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |
| 8.7 | Penetration time of glove material | The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| 8.8 | Eye protection | Safety goggles recommended during refilling. |
| 8.9 | Skin and body protection | Normal overalls. |

9 Physical and chemical properties

9.1	Appearance	Solid (at + 20 °C).
9.1.1	Form	Solid sheet.
9.1.2	Colour	Various colours.
9.1.3	Odour	Odourless.
9.2	Safety properties	
9.2.1	Changes in physical appearance	
	Boiling point	
	Melting point	130-167 °C
9.2.2.	Flash point	Not applicable (see attachment to guideline 92/69/EEC, A.9).
9.2.3.	Ignition temperature	>400°C
9.2.4.	Decomposition temperature	>300°C
9.2.5.	Density (23 °C) (DIN 53479)	0.89 – 0.91 g/cm ³
9.2.6.	Danger of explosion	Product is not explosive. See point(s) 7.
9.2.7.	Solubility in water	Insoluble.
9.2.8.	Additional information	Soluble in boiling, aromatic chlorinated solvents.

10 Stability and reactivity

10.1	Conditions to avoid/thermal decomposition	The product is stable at normal handling- and storage conditions.
10.2	Materials to be avoided	Strong oxidation agent.
10.3	Hazardous reactions	No dangerous reactions known.
10.4	Hazardous decomposition products	No hazardous decomposition products known at room temperature.

11 Toxicological information

11.1	Acute toxicity	None.
11.2	Primary irritant effect	
	On the skin	No irritant effect.
	On the eye	No irritant effect.
11.3	Sensitization	No sensitizing effect known.
11.4	Additional toxicological information	When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

12.1	Additional information	The product is not biodegradable.
12.2	General notes:	The product is not toxic, small particles can have physical effects on water and soil organisms.

13 Disposal Consideration

13.1	Product recommendation	Disposal through controlled incineration or authorised waste dump.
13.2	European waste catalogue	070213
13.3	Uncleaned packagings	Disposal must be done according to official regulations.

14 Transport information

According to national and international guidelines, which regulate the road-, rail-, air- and seartransport, this product is classified as not dangerous.

15 Regulatory information

15.1	Designation according to EEC Directives	According to EEC Directive 67/548 and following adaptations the product is not dangerous.
15.2	National legislation/regulation	

15.3	Further regulations, restrictions and prohibition regulations	Generally all national regulations regarding this product type apply.
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16	Other information	The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Basell takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.
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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:
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Date: 26.02.2002

Signature: