

MATERIAL SAFETY DATA SHEET

(in accordance with Directive 1907/2006 EC)

Revised Date: 08.05.2013

1. COMPANY AND PRODUCT IDENTIFICATION

Trade Name: POLIKAP (PVDC, PVOH, Acrylic coated), POLISTRIP

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Chemical Classification: Polyolefin

Product Description: Polymer Article / Packaging Material / Labeling Material & Associated Applications

2. COMPOSITION / INGREDIENT

<u>CAS No.</u>	<u>Name</u>	<u>%</u>
9003-07-0	Polypropylene	>90
25038-72-6	PVDC (for only PVdC coated films)	<7

THE FOLLOWING FILLERS AND/OR ADDITIVES MAY BE PRESENT:

25895-47-0	PP Terpolymer	<10
471-34-1	Calcium Carbonate	<8
13463-67-7	Titanium Dioxide	<8
7429-90-5	Aluminum	< 0,02

3. HAZARDS IDENTIFICATION

Skin Contact: If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Eye Contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: No adverse effects due to ingestion are expected.

Environmental Impact: Non biodegradable, non compostable.

Inhalation: In case of adverse exposure to vapors and / or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

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Physico-Chemical Hazards: Heating to elevated temperature during processing may release irritating fumes. Thermal burn hazard - contact with hot material may cause thermal burns. Material can accumulate static charges which may cause an ignition.

4. FIRST AID MEASURES

Eye Contact: Exposure to hot molten material. Treat the part with cold water. Seek immediately special treatment at hospital or medical center. In case of irritation caused by vapors/fumes; wash with copious volumes of water, and seek medical advice.

Skin Contact: Exposure to hot molten material. Treat the affected part with cold water. No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material. Injured areas should be treated as burns.

Route of Exposure Inhalation: Fumes and vapors produced by heated or burned material may be irritating for the respiratory tract. In the case of PVDC coated films, thermal decomposition of PVDC releases HCl. Bring the patient into fresh air. Get medical advice if the symptoms continue.

5. FIRE FIGHTING MEASURES

Fire Class Regulation: A

Technical Measures: Stop the fire spreading. Call the fire brigade immediately. Evacuate non-essential personnel. Protective clothing, goggles and self-contained breathing equipment should be made available for firemen.

Extinguishing Media Suitable: CO₂, Halon, AFFF (Aqueous Film-Forming Foam) Foam, water spray (mist) only to cool the surfaces exposed to the fire.

Not to Be Used: Do not use water jets (stick jets) for extinguishing fire, since they could help to spread the flames.

Exposure Hazards: Complete combustion with an excess of oxygen forms; CO₂ and water vapor. Partial combustion forms also; CO, fumes and vapors irritating to the respiratory tract.

Protective Equipment For Firefighters: Wear suitable breathing equipment in case of risk of exposure to vapor or fumes.

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6. ACCIDENTAL RELEASE MEASURES

After Spillage On Soil:	Film on the floor can cause slipping. Recover the spilled material by sweeping and dispose of it. Dispose safely in accordance with local and national regulations.
On Water:	If the material has been discharged into a water stream, inform the authorities of the possible presence of floating debris.

7. HANDLING & STORAGE

Handling:	Film rolls and pallets are heavy. Film edges are sharp and may cause cuts / wounds. Exercise in handling the material, most care.
Storage Conditions:	Store at ambient temperature and humidity (preferably 25 °C, 50% relative humidity) in original packaging Store away from heating sources, avoid static electricity buildup. When pallets are stored in racks, it should be checked whether the pallets fit the racks.
Vbf - Klasse (Germany):	Not applicable
Specific Use(s)	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Standard usage conditions of material do not generate the formation of dust particles In case of risk of exposure to dust, vapor or fumes generated by thermal decomposition of the material, it is recommended that a local exhaust system is placed above the converting equipment (hood) and the working area must be properly ventilated. In the case of PVDC coated films, thermal decomposition of PVDC releases HCl. Bring the patient into fresh air. Get medical advice if the symptoms continue.
Skin And Body Protection:	If contact with hot molten material is possible ,wear heat-insulating and chemical-proof gloves and clothes as well as a face shield.
Eye Protection:	When the splashing of hot molten material may occur, wear goggles/face shield.
Other Personal Protection:	Slabs of film on the floor can be slippery. Exercise due care in areas when spillage occur.

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9. PHYSICAL & CHEMICAL PROPERTIES

Color:	Transparent, metallized or white.
Odor:	Odorless.
Melting range, °C :	from 160 to 165
Flash Temperature (ASTM D1929), °C:	350
Auto-Ignition Temperature °C:	>380
Explosion limit:	Not applicable.
Density, mass at (20°C),(kg/m3):	550-1000
Solubility in water at 20 °C (mg/l):	Insoluble
Solubility in organic solvents at 20 °C (mg/l):	Insoluble

10. STABILITY & REACTIVITY

Stability:	The material is stable under normal storage, handling and operating conditions (up to 45°C, 50% RH).
Hazardous Reactions:	The material is combustible if exposed to flames. Handling of material may create electrical charges and sparks which may be a cause of ignition of other flammable materials. In the case of PVDC coated films, thermal decomposition products are HCl, CO, and particulates of C.
Conditions To Avoid:	Avoid contact with strong oxidizing materials and fluorine. Avoid proximity or contact with flames or heat to temperatures exceeding 235 °C.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	The material is biologically inert and not harmful.
Inhalation:	Fumes and vapors produced by heated or burned material may be irritating for the respiratory tract. Bring patient into fresh air. Get medical advice if the symptoms continue.
Skin Contact:	The material is not irritating. The contact with the hot molten material may cause severe thermal burns. Thermal decomposition materials are produced at elevated temperatures and these may be irritating to the respiratory tract.

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Eye Contact: Because of its composition, the material should be considered not irritating.

Specific Effects: At best of the present knowledge, the material is not Genotoxic, Carcinogenetic or harmful for reproduction.

12. ECOLOGICAL INFORMATION

Ecological Effects: Avoid dissemination in the environment.

Biodegradation: The material is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Always dispose of in accordance to local regulations. The material can be disposed or in the following ways.

- * Landfill.
- * Incineration (Thermal recovery) must be carried out in plants equipped with a system for the neutralization or recovery of HCl from flue gases.
- * Recycling (Reprocessing) is possible only with mixed plastics.

14. TRANSPORT INFORMATION

Un Number: Not applicable.

Road (ADR)/Rail (RID): Not restricted for transportation.

Marine (IMO-IMDG): Not restricted for transportation.

Air (ICAO/IATA): Not restricted for transportation.

15. REGULATORY INFORMATION

The product is suitable to come into contact with foodstuffs, being in conformity with:

EEC Directives: Commission Regulation 10/2011 and its successive last amendments, Regulation 1935/2004/EC, Regulation 2023/2006/EC

U.S.A. : F.D.A. Regulations Title 21 CFR par. 175.300 and 176.170

16. ADDITIONAL INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of Polinas Plastic's knowledge and belief accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.
