

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING**

**Product Name** Polyken 225FR Printed  
**Product Description** Rubber Based Pressure Sensitive Adhesive  
**Manufacturer/Supplier** Berry Plastics Corporation, Tapes and Coatings Division  
**Address** 25 Forge Parkway  
 Franklin, MA 02038  
**Phone Number** (800) 248-7659 (Monday – Friday 8:00 am to 5:00 pm)  
**Chemtrec Number** (800) 424-9300  
**Revision Date:** December 13, 2012  
**MSDS Date:** June 20, 2007  
*Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. HAZARDS IDENTIFICATION**

**EU Main Hazards**  
 Not classified as hazardous.

**Routes of Entry**

Skin contact

**Carcinogenic Status**

See Section 11.

**Target Organs**

Skin

**Health Effects - Eyes**

Contact may cause irritation due to mechanical abrasion.

**Health Effects - Skin**

Prolonged, repeated contact with adhesive may cause skin irritation.

**Health Effects - Ingestion**

Not an expected route of entry during normal handling and use.

**Health Effects - Inhalation**

Not an expected route of entry during normal handling and use.

**3. COMPOSITION/INFORMATION ON THE COMPONENTS**

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polymers and Rubbers	N.A.	20 - 30%	None	None
Hydrocarbon resin	N.A.	10 - 20%	None	None
Inorganic Compound(s)	N.A.	1 - 10%	None	None
Antimony Trioxide	1309-64-4/ 215-175-0	1 - 10%	R40	Xn,Carc.Cat.3
Zinc Oxide	1314-13-2/ 215-222-5	1 - 10%	R50/53	N
Titanium Dioxide	13463-67-7 236-675-5	1 - 5%	None	None
Flame Retardant Compound	N.A.	1 - 10%	None	None

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**4. FIRST AID MEASURES**

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**Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

**Ingestion**

Obtain medical attention immediately.

**Inhalation**

Remove person to fresh air. Seek medical attention if symptoms persist.

**Advice to Physicians**

Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

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**Extinguishing Media**

Water spray, carbon dioxide and dry chemical.

**Unusual Fire and Explosion Hazards**

Can release hazardous vapors during a fire.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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No specific measures necessary. Prevent the material from entering drains or watercourses.

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**7. HANDLING AND STORAGE**

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Keep away from heat and sources of ignition. Exposure to high heat or flame can release irritating and toxic fumes. Storage area should be: cool - dry - well ventilated - away from incompatible materials

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Occupational Exposure Standards**

Exposure limits are listed below, if they exist.

**Polymers and Rubbers**

None established

**Inorganic Compound(s)**

None established

**Hydrocarbon Resin**

None established

**Zinc Oxide, fume**

OSHA PEL: 5 mg/m<sup>3</sup> TWA

**Zinc Oxide**

ACGIH: 8hr TWA: 2mg/m<sup>3</sup> , measured as respirable fraction of aerosol

STEL/CEIL : 10mg/m<sup>3</sup>, measured as respirable fraction of aerosol

OSHA PEL(Dust only): 15mg/m<sup>3</sup> total dust, 5mg/m<sup>3</sup> respirable fraction

**Antimony Trioxide, (as Sb)**

ACGIH TLV: 0.5 mg/m<sup>3</sup> TWA

OSHA PEL: 0.5 mg/m<sup>3</sup> TWA

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Titanium Dioxide**

ACGIH TLV: 10 mg/m<sup>3</sup> TWA

OSHA PEL: 15 mg/m<sup>3</sup> TWA (Total dust)

**Flame Retardant Compound**

None established

**Engineering Control Measures**

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

**Respiratory Protection**

Respiratory protection not normally required.

**Hand Protection**

Wear protective gloves to prevent contact with adhesive.

**Eye Protection**

Safety glasses

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Polyethylene coated cloth backing with a rubber based pressure sensitive adhesive
<b>Color</b>	White printed backing with milky white adhesive
<b>Odor</b>	Slight
<b>pH</b>	Not applicable
<b>Specific Gravity</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	Not applicable
<b>Melting Point (°C/F)</b>	Not applicable
<b>Flash Point (PMCC) (°C/F)</b>	Not known
<b>Explosion Limits (%)</b>	No data available
<b>Vapor Pressure</b>	Not applicable
<b>Density</b>	No data.
<b>Solubility in Water</b>	Not known
<b>Vapor Density (Air = 1)</b>	Not applicable

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**10. STABILITY AND REACTIVITY**

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**Stability**

Stable under normal conditions.

**Conditions to Avoid**

Heat - High temperatures

**Materials to Avoid**

Acids – bases – strong oxidizers

**Hazardous Polymerization**

Will not occur.

**Hazardous Decomposition Products**

Oxides of carbon – hydrogen chloride – oxides of antimony – hydrogen bromide – bromine

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11. **TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Antimony Trioxide: LD50 oral (rat): >34600 mg/kg

Flame Retardant Compound: LD50 oral (rat): >5000mg/kg, LD50 dermal (rabbit) >2000 mg/kg

**Specific Target Organ Systemic Toxicity (single and repeat)**

No relevant studies identified.

**Serious Eye damage/Eye Irritation**

May cause irritation due to mechanical abrasion.

**Skin Corrosion/Irritation**

May cause slight irritation on prolonged, repeated contact.

**Respiratory or Skin Sensitization**

No relevant studies identified.

**Carcinogenicity**

Antimony Trioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) When encapsulated in the adhesive matrix the risk of exposure is reduced.

Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC conclusions are based on evidence showing that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Human studies conducted so far do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer. Since this product is an adhesive, the titanium dioxide is no longer in a dust form.

Flame Retardant Compound: From data comparison to similar compounds, the Environmental Protection Agency has concluded that this substance may cause cancer as a result of significant chronic dermal and inhalation exposures to workers.

**Germ Cell Mutagenicity**

No relevant studies identified.

**Toxicity to Reproduction**

No relevant studies identified.

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12. **ECOLOGICAL INFORMATION**

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

Flame Retardant Compound: Based on comparison to similar compounds, the EPA has determined that this compound may be toxic to aquatic organisms.

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13. **DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with all applicable local and national regulations.

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14. **TRANSPORT INFORMATION**

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**DOT CFR 172.101 Data** Not Regulated

**UN Proper Shipping Name** Not Regulated

**UN Class** None.

**UN Number** None.

**UN Packaging Group** None.

**Classification for AIR Transportation (IATA)** Consult current IATA Regulations prior to shipping by air.

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15. **REGULATORY INFORMATION**

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**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

**EC Annex I Classification**

According to EC Commission Directive 67/548/EEC this product is not classified.

**R phrases**

None.

**S phrases**

None.

**US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**

**TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

**EINECS Listing**

All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

**DSL (Canadian) Listing**

This product contains an ingredient that is not listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

**California Proposition 65**

This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Arsenic (7440-38-2) <0.01% – Lead (7439-92-1) <0.01% – Antimony Trioxide(1309-64-4) - Cadmium (7440-43-9) trace

**SARA Title III Sect. 311/312 Categorization**

Immediate (acute) Delayed (chronic)

**SARA Title III Sect. 313**

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Antimony Trioxide (1309-64-4) - Zinc Oxide (1314-13-2)

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16. **OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - \*1

HMIS Code for Physical Hazards - 0

HMIS Code for Personal Protection - See Section 8

\*chronic health hazard

**Abbreviations**

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

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16. OTHER INFORMATION

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IARC: International Agency for Research on Cancer R: Risk  
S: Safety

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Carbon Partition Coefficient

R40: Limited evidence of a carcinogenic effect.

Xn: Harmful

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R40: Limited evidence of a carcinogenic effect.

N: Dangerous for the environment.

Carcinogen Category 3: Substances which cause concern for man owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment.

**For further information email:** [msdstechnical@berryplastics.com](mailto:msdstechnical@berryplastics.com)

**Prepared By:** EnviroNet LLC.

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