

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

**Product Name** Polyken 225FR  
**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 27, 2007  
**MSDS Date:** June 20, 2007

*Safety Data Sheet according to EC directive 2001/58/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 - Inhalation

**Carcinogenic Status**

See section 11.

**Target Organs**

- Skin

**Health Effects - Eyes**

Contact may cause irritation due to mechanical abrasion or overexposure to vapors.

**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**

Prolonged, repeated inhalation of adhesive may cause dizziness and drowsiness.

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

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polymers and Rubbers	N.A.	<25%	None	None
Hydrocarbon resin	N.A.	<20%	None	None
Inorganic Compound(s)	N.A.	<10%	None	None
Antimony Trioxide	1309-64-4/ 215-175-0	<10%	R40	Xn,Carc.Cat.3
Titanium Dioxide	13463-67-7 236-675-5	<1%	None	None

---

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

---

<b>Component Name</b>	<b>CAS#/Codes</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Chlorinated Paraffin	108171-26-2	<5%	None	None
Decabromodiphenyl oxide	1163-19-5/ 214-604-9	<10%	None	None

---

**4. FIRST AID MEASURES**

---

**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.

---

**5. FIRE-FIGHTING MEASURES**

---

**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.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

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

---

**7. HANDLING AND STORAGE**

---

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

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**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

---

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**Chlorinated Paraffin**

None established

**Antimony Trioxide, (as Sb)**

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

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

**Titanium Dioxide**

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

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

**Decabromodiphenyl oxide**

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**

Not required under normal conditions of use. However, care should be taken to avoid contact with the adhesive.

**Eye Protection**

Safety glasses

**Body Protection**

Normal work wear.

---

9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Physical State</b>	Polyethylene coated cloth backing with a rubber based pressure sensitive adhesive
<b>Color</b>	White printed, silver unprinted or white unprinted 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

---

10. STABILITY AND REACTIVITY

---

**Stability**

Stable under normal conditions.

**Conditions to Avoid**

- Heat - High temperatures

---

**10. STABILITY AND REACTIVITY**

---

**Materials to Avoid**

Acids – bases – strong oxidizers

**Hazardous Polymerization**

Will not occur.

**Hazardous Decomposition Products**

– oxides of carbon – hydrocarbons – aldehydes – acrolein – waxes – oligomers – oxygenated hydrocarbons – ketones – irritating fumes – hydrogen chloride – oxides of antimony – hydrogen bromide – bromine

---

**11. TOXICOLOGICAL INFORMATION**

---

**Acute Toxicity**

Chlorinated Paraffin: LD50 oral (rat): >4000 mg/kg

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

Decabromodiphenyl oxide: LD50 oral (rat): >5000mg/kg

**Chronic Toxicity/Carcinogenicity**

Chlorinated Paraffin: IARC: Overall evaluation is 2B (possibly carcinogenic to humans)

NTP: Anticipated Carcinogen

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) When encapsulated in the adhesive matrix the risk of exposure is reduced.

**Genotoxicity**

This product is not expected to cause any mutagenic effects.

**Reproductive/Developmental Toxicity**

This product is not expected to cause adverse reproductive effects.

---

**12. ECOLOGICAL INFORMATION**

---

**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

The product may be harmful to aquatic organisms.

---

**13. DISPOSAL CONSIDERATIONS**

---

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

---

**14. TRANSPORT INFORMATION**

---

**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.

---

15. REGULATORY INFORMATION

---

**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**

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL).

**MA Right To Know Law**

This product contains the following chemicals on the Massachusetts Right to Know Law: Titanium Dioxide (13463-67-7) <1% - Chlorinated Paraffin (108171-26-2) <5% - Antimony Trioxide(1309-64-4) <10%- Arsenic (7440-38-2) <0.02 - Decabromodiphenyl oxide (1163-19-5) <10%

**PA Right To Know Law**

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Chlorinated Paraffin (108171-26-2) <5% - Antimony Trioxide(1309-64-4) <10%- Arsenic (7440-38-2) <0.02% - Zinc Oxide (1314-13-2) <2% - decabromodiphenyl oxide (1163-19-5) <10% - aluminum oxide (1344-28-1) <0.08% - Lead (7439-92-1) <0.02%

**NJ Right To Know Law**

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Titanium Dioxide (13463-67-7) <1% - Chlorinated Paraffin (108171-26-2) <5% - Antimony Trioxide(1309-64-4) <10% - Zinc Oxide (1314-13-2) <2% - decabromodiphenyl oxide (1163-19-5) <10% - dibutyltin maleate (78-04-06) <0.3%

**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) <0.02% - Lead (7439-92-1) <0.02% - Chlorinated Paraffin (108171-26-2) <10% - Antimony Trioxide(1309-64-4) <10%

**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 Oxide (1309-64-4) <10% - decabromodiphenyl oxide (1163-19-5) <10% - zinc oxide (1314-13-2) <2%

---

16. OTHER INFORMATION

---

**NFPA Ratings**

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

---

16. OTHER INFORMATION

---

**HMIS Ratings**

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

**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

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

---

16. OTHER INFORMATION

---

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

**Prepared By:** EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate. Berry Plastics Corporation, Tapes and Coatings Division assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.