

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

**Product Name** Polyken 222, 809, 811  
**Product Description** Pressure Sensitive Adhesive  
**Manufacturer/Supplier** Berry Plastics Corporation  
**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:** July 18, 2013  
**MSDS Date:** September 6, 2006

*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 for information.

**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 and skin sensitization.

**Health Effects - Ingestion**

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

**Health Effects - Inhalation**

Not expected to cause irritation during normal handling and use.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polymers and Rubbers	N.A.	<20%	None	None
Polymerized Rosin	N.A.	<10%	None	None
Hydrocarbon resins	N.A.	<8%	None	None
Zinc Oxide	1314-13-2	<5%	R50/53	N
	215-222-5			
Kaolin Clay	1332-58-7	<20%	None	None
	310-194-1			
Mineral Oil	N.A.	<3%	None	None
Titanium Dioxide	13463-67-7	<1%	None	None
	236-675-5			

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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**

May 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. 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

##### **Polymerized Rosin**

None established

##### **Hydrocarbon Resins**

None established

##### **Zinc Oxide**

ACGIH TLV: 2mg/m<sup>3</sup>, 8hr TWA, 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

##### **Zinc Oxide, fume**

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

##### **Mineral Oil**

ACGIH TLV 8hr TWA : 05 mg/m<sup>3</sup> measured as respirable fraction of the aerosol

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### **Kaolin Clay**

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

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

### **Titanium Dioxide**

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

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

### **Respiratory Protection**

Respiratory protection not normally required.

### **Engineering Control Measures**

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

### **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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical State</b>	Polyken 222 tapes are polyethylene coated cloth backing with a rubber based adhesive system Polyken 809 and 811 tapes are polyethylene film backings with a rubber based adhesive system
<b>Color</b>	Various colored backings with tan 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**

Strong oxidizers

### **Hazardous Polymerization**

Will not occur.

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**10. STABILITY AND REACTIVITY**

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**Hazardous Decomposition Products**

Oxides of carbon – hydrocarbons – oxides of nitrogen - organic acids– aldehydes – alcohols- acrolein – carboxylic acids – smoke – ketones – sulfur oxides

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Low order of acute toxicity.

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

Not expected to cause adverse health effects to organ systems.

**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**

Polymerized rosin: Prolonged, repeated contact may cause skin sensitization.

**Carcinogenicity**

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

**Germ Cell Mutagenicity**

This product is not expected to cause any mutagenic effects.

**Toxicity to Reproduction**

This product is not expected to cause adverse reproductive effects.

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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**

The product may be harmful 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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<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None.
<b>UN Number</b>	None.
<b>UN Packaging Group</b>	None.
<b>Classification for AIR Transportation (IATA)</b>	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 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).

**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: None

**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: 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 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

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**16. OTHER INFORMATION**

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**Abbreviations**

S: Safety

N: Dangerous for the environment

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

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Carbon Partition Coefficient

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