

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

Product Name Polyken 290 and 297
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:
MSDS Date: December 12, 2012
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.	15 - 25%	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
Flame Retardant Compound	N.A.	1 - 10%	None	None
Titanium Dioxide	13463-67-7 236-675-5	0.1 - <1%	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

Antimony Trioxide, (as Sb)

ACGIH TLV: 0.5 mg/m³ TWA

OSHA PEL: 0.5 mg/m³ TWA

Titanium Dioxide

ACGIH TLV: 10 mg/m³ TWA

OSHA PEL: 15 mg/m³ TWA (Total dust)

Flame Retardant Compound

None established

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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.

11. TOXICOLOGICAL INFORMATION

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.

12. ECOLOGICAL INFORMATION

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.

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

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)

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

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

16. OTHER INFORMATION

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

R40: Limited evidence of a carcinogenic effect.

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

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