

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

**Product Name** 311 Duct Tape  
**Product Description** Polymer 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:** October 15, 2010  
**MSDS Date:** August 10, 2006

*Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)*

**2. HAZARDS IDENTIFICATION**

<p><b>EU Main Hazards</b>          Not classified as hazardous.</p>
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**Routes of Entry**

Inhalation - 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.

**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
Hydrocarbon resin	N.A.	<25%	None	None
Inorganic Compound(s)	N.A.	<30%	None	None
Titanium Dioxide	13463-67-7 236-675-5	<2%	None	None
Quartz	14808-60-7 238-878-4	<1%	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

**Hydrocarbon Resin**

None established

**Inorganic Compound(s)**

None established

**Quartz**

ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m<sup>3</sup> measured as respirable fraction of the aerosol

**Titanium Dioxide**

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

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

**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.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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>	Polymer and cloth backing with a polymer based pressure sensitive adhesive
<b>Color</b>	Varied
<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 – hydrocarbons – partially oxidized hydrocarbons – traces of alphaethylacrolein and formaldehyde – aldehydes – acrolein – waxes – oligomers – oxygenated hydrocarbons – oxides of nitrogen

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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.

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**11. TOXICOLOGICAL INFORMATION**

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**Skin Corrosion/Irritation**

May cause slight irritation on prolonged, repeated contact.

**Respiratory or Skin Sensitization**

No relevant studies identified.

**Carcinogenicity**

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.

For "inhalable" crystalline silica (quartz): IARC Overall Evaluation is 1 (carcinogenic to humans), the quartz in this formulation is in an adhesive matrix and is not expected to be "inhalable"

**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.

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**15. REGULATORY INFORMATION**

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**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 not 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: Arsenic (7440-38-2) <1ppm – Lead (7439-92-1) <1 ppm

**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. - none

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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

S: Safety

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Carbon Partition Coefficient

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16. OTHER INFORMATION

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**For further Information email:** msdstechical@berryplastics.com

**Prepared By:** EnviroNet LLC.

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