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

Product Name: 557
Product Description: 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: March 23, 2012
MSDS Date: February 15, 2008

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

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>EU Main Hazards</th>
<th>Not classified as hazardous.</th>
</tr>
</thead>
</table>

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.

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

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS#/Codes</th>
<th>Concentration</th>
<th>R Phrases</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymers and Resins</td>
<td>N.A.</td>
<td>&gt;50%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Inorganic Compound(s)</td>
<td>N.A.</td>
<td>&lt;30%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt;2%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>236-675-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>&lt;1%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>238-878-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 Resins**
None established

**Inorganic Compound(s)**
None established

**Quartz**
ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m³ measured as respirable fraction of the aerosol

**Titanium Dioxide**
ACGIH TLV: 10 mg/m³ TWA
OSHA PEL: 15 mg/m³ 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.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Physical State
Polymer and cloth backing coated with a pressure sensitive adhesive and interleaved with a polymer liner

Color
Light gray adhesive with aluminum, black or silver backing

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

VOC (g/l)
< 1 g/l

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
No relevant studies identified.

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**
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**
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**
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**
15. REGULATORY INFORMATION

R phrases
None.

S phrases
None.

<table>
<thead>
<tr>
<th>US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TSCA Listing</strong></td>
</tr>
<tr>
<td>This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.</td>
</tr>
</tbody>
</table>

| **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** |
| The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. To the best of the manufacturer’s knowledge the products manufactured do not contain Proposition 65 Chemicals at levels which would require warning labels as known to the State of California to cause cancer or reproductive toxicity. |

| **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 |

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 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 |
16. OTHER INFORMATION

LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
N: Dangerous for the environment.

For further Information email: msdstechnical@berryplastics.com
Prepared By: EnviroNet LLC.

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