1. Product and Company Identification

Product Code: 442-Pigmented
Product Name: 442 WB Urethane Gloss (Pigmented) Part A
Trade Name: 442 WB Urethane Gloss (Pigmented) Part A

Manufacturer Information

Company Name: Epoxy Systems, Inc.
20774 W Pennsylmania Ave
Dunnellon, FL 34431

Phone Number: +1 352-489-1666
Emergency Contact: PERS (USA) (800) 633-8253
Alternate Emergency Contact: PERS (International) +1 (801)629-0667

Intended Use: Industrial floor coatings.

2. Hazards Identification

GHS Classification  | Placard | Key word | GHS hazard phrase
Skin Corrosion/Irritation, Category 3 | none | Warning | Causes mild skin irritation

GHS Hazard Phrases
H320 - Causes eye irritation.
H316 - Causes mild skin irritation.

GHS Precaution Phrases
P281 - Use personal protective equipment as required. P262 - Do not get in eyes, on skin, or on clothing.

GHS Response Phrases
P332+313 - If skin irritation occurs, get medical advice/attention.

GHS Storage and Disposal Phrases
P401 - Store >45 F....

Potential Health Effects (Acute and Chronic)
May cause eye irritation. May cause skin irritation. May cause respiratory irritation.

Inhalation
May cause respiratory irritation.

Skin Contact
May cause skin irritation.

Eye Contact
May cause eye irritation.

Ingestion
May be harmful if swallowed.

Medical Conditions Generally Aggravated By Exposure
Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:
This material is classified as hazardous under OSHA regulations.
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Titanium dioxide</td>
<td>13463-67-7</td>
<td>20 - 30 %</td>
</tr>
<tr>
<td>2. Wetting Agent</td>
<td>NA</td>
<td>&lt;5.0 %</td>
</tr>
<tr>
<td>3. Ethylene glycol monopropyl ether</td>
<td>2807-30-9</td>
<td>&lt;2.0 %</td>
</tr>
<tr>
<td>4. Triethanolamine</td>
<td>102-71-6</td>
<td>&lt;2.0 %</td>
</tr>
<tr>
<td>5. 2-Propanol, 1-Butoxy-</td>
<td>5131-66-8</td>
<td>&lt;2.0 %</td>
</tr>
<tr>
<td>6. Iron oxide</td>
<td>1317-61-9</td>
<td>0 - 10 %</td>
</tr>
<tr>
<td>7. Iron oxide (Fe2O3)</td>
<td>1309-37-1</td>
<td>0 - 10 %</td>
</tr>
<tr>
<td>8. C.I. Pigment Yellow 42</td>
<td>51274-00-1</td>
<td>0 - 10 %</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Emergency and First Aid Procedures

In Case of Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact
In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion
If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. For further assistance, contact your local Poison Control Center.

Signs and Symptoms Of Exposure
May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

5. Fire Fighting Measures

Flash Pt: > 200.00 F  Method Used: Not Applicable
Explosive Limits: LEL: NE  UEL: NE
Autoignition Pt: No data available.

Fire Fighting Instructions
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.

Flammable Properties and Hazards
Product will not support combustion as supplied.

Hazardous Combustion Products
In a fire, product may produce the following: Carbon monoxide, Carbon dioxide.

Suitable Extinguishing Media
Will not support combustion.

Unsuitable Extinguishing Media
Will not support combustion.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.
Evacuate area. Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.
**Protective Precautions, Protective Equipment and Emergency Procedures**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas.

### 7. Handling and Storage

**Hazard Label Information:**

Avoid contact with skin and eyes. Do not get on skin and clothing. Keep from freezing. Store in a closed container.

**Precautions To Be Taken in Handling**

Wear all personal protection required in section 8. Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

**Precautions To Be Taken in Storing**

Keep from freezing. Keep container closed when not in use.

**Other Precautions**

Wash thoroughly after handling.

### 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Titanium dioxide</td>
<td>13463-67-7</td>
<td>15 (dust) mg/m3</td>
<td>10 mg/m3</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Wetting Agent</td>
<td>NA</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Ethylene glycol monopropyl ether</td>
<td>2807-30-9</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>4. Triethanolamine</td>
<td>102-71-6</td>
<td>No data.</td>
<td>5 mg/m3</td>
<td>No data.</td>
</tr>
<tr>
<td>5. 2-Propanol, 1-Butoxy-</td>
<td>5131-66-8</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>7. Iron oxide (Fe2O3)</td>
<td>1309-37-1</td>
<td>10 mg/m3</td>
<td>5 mg/m3 (dust &amp; fume)</td>
<td>No data.</td>
</tr>
<tr>
<td>8. C.I. Pigment Yellow 42</td>
<td>51274-00-1</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

**Protective Equipment Summary - Hazard Label Information:**

Neoprene gloves Safety glasses, or goggles. Impervious clothing.

**Respiratory Equipment (Specify Type)**

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**Eye Protection**

Safety glasses, or goggles.

**Protective Gloves**

Nitrile rubber and Neoprene are recommended.

**Other Protective Clothing**

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

**Engineering Controls (Ventilation etc.)**

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.
Work/Hygienic/Maintenance Practices
Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Environmental Exposure Controls
Avoid release to the environment. Avoid runoff into storm sewers and ditches which lead to waterways.

9. Physical and Chemical Properties

Physical States: [ ] Gas  [X] Liquid  [ ] Solid
Melting Point: No data.
Boiling Point: NE
Autoignition Pt: No data.
Flash Pt: > 200.00 F  Method Used: Not Applicable

Explosive Limits: LEL: NE  UEL: NE

Specific Gravity (Water = 1): ~ 1.31 - 1.33
Density: ~ 11.00 - 11.1

Vapor Pressure (vs. Air or mm Hg): NE
Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: Soluble

Solubility Notes
Water soluble.

Percent Volatile: ~ 60 % by volume.

VOC / Volume: ~ 0.1000 LB/GA
HAP / Volume: NE

Saturated Vapor Concentration: NE

Appearance and Odor
White. Faint.

10. Stability and Reactivity

Stability: Unstable [ ]  Stable [X]

Reactivity
Avoid uncontrolled contact with isocyanates.

Conditions To Avoid - Instability
None known.

Incompatibility - Materials To Avoid
Strong oxidizing agents.

Hazardous Decomposition Or Byproducts
None known.

Possibility of Hazardous Polymerization:
Will occur [ ]  Will not occur [X]

Conditions To Avoid - Hazardous Reactions
Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Chronic Toxicological Effects
No data available.
12. Ecological Information

General Ecological Information

No data available.

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

No data available.

Bioaccumulative Potential

not reported, unknown.

Mobility in Soil

not reported, unknown.

13. Disposal Considerations

Waste Disposal Method

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name

Not Regulated.

Precautionary Label

Always read Safety Material Data Sheet before use. May cause skin, eye, and respiratory irritation.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name

Not Regulated.

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name

Not Regulated.

15. Regulatory Information

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Titanium dioxide</td>
<td>13463-67-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Wetting Agent</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Ethylene glycol monopropyl ether</td>
<td>2807-30-9</td>
<td>No</td>
<td>No</td>
<td>Yes-Cat. N230</td>
<td>No</td>
</tr>
<tr>
<td>4. Triethanolamine</td>
<td>102-71-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>5. 2-Propanol, 1-Butoxy-</td>
<td>5131-66-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>6. Iron oxide</td>
<td>1317-61-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>7. Iron oxide (Fe2O3)</td>
<td>1309-37-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>8. C.I. Pigment Yellow 42</td>
<td>51274-00-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Regulatory Information
SARA Section 311/312: Acute Health Hazard.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer
The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

Revision Date: 10/20/2015