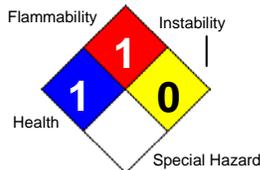


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# SAFETY DATA SHEET

## 442 WB Urethane Gloss (LTB) Part A

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>PHYSICAL</b>	0
<b>PPE</b>	X



Printed: 10/20/2015  
Revision: 10/20/2015

### 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 Pennsylvania 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

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

### 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

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Titanium dioxide	13463-67-7	15 (dust) mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No data.
2. Wetting Agent	NA	No data.	No data.	No data.
3. Ethylene glycol monopropyl ether	2807-30-9	No data.	No data.	No data.
4. Triethanolamine	102-71-6	No data.	5 mg/m <sup>3</sup>	No data.
5. 2-Propanol, 1-Butoxy-	5131-66-8	No data.	No data.	No data.
6. Iron oxide	1317-61-9	No data.	No data.	No data.
7. Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (dust & fume)	No data.
8. C.I. Pigment Yellow 42	51274-00-1	No data.	No data.	No data.

### 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**

<b>Physical States:</b>	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
<b>Melting Point:</b>	No data.		
<b>Boiling Point:</b>	NE		
<b>Autoignition Pt:</b>	No data.		
<b>Flash Pt:</b>	> 200.00 F Method Used: Not Applicable		
<b>Explosive Limits:</b>	LEL: NE	UEL: NE	
<b>Specific Gravity (Water = 1):</b>	~ 1.31 - 1.33		
<b>Density:</b>	~ 11.00 - 11.1		
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NE		
<b>Vapor Density (vs. Air = 1):</b>	NE		
<b>Evaporation Rate:</b>	NE		
<b>Solubility in Water:</b>	Soluble		
<b>Solubility Notes</b>	Water soluble.		
<b>Percent Volatile:</b>	~ 60 % by volume.		
<b>VOC / Volume:</b>	~ 0.1000 LB/GA		
<b>HAP / Volume:</b>	NE		
<b>Saturated Vapor Concentration:</b>	NE		
<b>Appearance and Odor</b>	White. Faint.		

**10. Stability and Reactivity**

<b>Stability:</b>	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>
<b>Reactivity</b>	Avoid uncontrolled contact with isocyanates.	
<b>Conditions To Avoid - Instability</b>	None known.	
<b>Incompatibility - Materials To Avoid</b>	Strong oxidizing agents.	
<b>Hazardous Decomposition Or Byproducts</b>	None known.	
<b>Possibility of Hazardous Polymerization:</b>	Will occur <input type="checkbox"/>	Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions</b>	Will not undergo hazardous polymerization in normal storage conditions.	

**11. Toxicological Information**

**Chronic Toxicological Effects**

No data available.

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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Titanium dioxide	13463-67-7	n.a.	2B	A4	n.a.
2. Wetting Agent	NA	n.a.	n.a.	n.a.	n.a.
3. Ethylene glycol monopropyl ether	2807-30-9	n.a.	n.a.	n.a.	n.a.
4. Triethanolamine	102-71-6	n.a.	3	n.a.	n.a.
5. 2-Propanol, 1-Butoxy-	5131-66-8	n.a.	n.a.	n.a.	n.a.
6. Iron oxide	1317-61-9	n.a.	n.a.	n.a.	n.a.
7. Iron oxide (Fe2O3)	1309-37-1	n.a.	3	A4	n.a.
8. C.I. Pigment Yellow 42	51274-00-1	n.a.	n.a.	n.a.	n.a.

### 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

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Titanium dioxide	13463-67-7	No	No	No	No
2. Wetting Agent	NA	No	No	No	No
3. Ethylene glycol monopropyl ether	2807-30-9	No	No	Yes-Cat. N230	No
4. Triethanolamine	102-71-6	No	No	No	No
5. 2-Propanol, 1-Butoxy-	5131-66-8	No	No	No	No
6. Iron oxide	1317-61-9	No	No	No	No
7. Iron oxide (Fe2O3)	1309-37-1	No	No	No	No
8. C.I. Pigment Yellow 42	51274-00-1	No	No	No	No

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**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