# SAFETY DATA SHEET
## 402 Urethane Topcoat - Clear Part A

### 1. Product and Company Identification

<table>
<thead>
<tr>
<th><strong>Product Code:</strong></th>
<th>402A-CLEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name:</strong></td>
<td>402 Urethane Topcoat - Clear Part A</td>
</tr>
<tr>
<td><strong>Trade Name:</strong></td>
<td>402 Urethane Topcoat - Clear Part A</td>
</tr>
</tbody>
</table>

**Distributor Information**

<table>
<thead>
<tr>
<th><strong>Company Name:</strong></th>
<th>Epoxy Systems, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address:</strong></td>
<td>20774 W Pennsylvania Ave.</td>
</tr>
<tr>
<td></td>
<td>Dunnellon, Florida 34421</td>
</tr>
<tr>
<td><strong>Phone Number:</strong></td>
<td>+1 (352) 489-1666</td>
</tr>
<tr>
<td><strong>Emergency Contact:</strong></td>
<td>PERS (USA) (800) 633-8253</td>
</tr>
<tr>
<td><strong>Alternate Emergency Contact:</strong></td>
<td>PERS (International) +1 (801) 629-0667</td>
</tr>
</tbody>
</table>

**Intended Use:**

Industrial Maintenance Coatings

### 2. Hazards Identification

<table>
<thead>
<tr>
<th><strong>GHS Classification</strong></th>
<th><strong>Placard</strong></th>
<th><strong>Key word</strong></th>
<th><strong>GHS hazard phrase</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquids, Category 3</td>
<td>Flame</td>
<td>Warning</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>Acute Toxicity: Inhalation, Category 4</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation, Category 2A</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation, Category 2</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes skin irritation</td>
</tr>
</tbody>
</table>

**GHS Hazard Phrases**

- H226 - Flammable liquid and vapor.
- H332 - Harmful if inhaled. H335 - May cause respiratory irritation.
- H305 - May be harmful if swallowed and enters airways.
- H319 - Causes serious eye irritation.
- H315 - Causes skin irritation.

**GHS Precaution Phrases**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P261 - Avoid breathing mist/vapors/spray.
- P240 - Ground/bond container and receiving equipment.
- P243 - Take precautionary measures against static discharge.
- P242 - Use only non-sparking tools.
- P271 - Use only outdoors or in a well-ventilated area.
- P264 - Wash hands thoroughly after handling.
- P233 - Keep container tightly closed.

**GHS Response Phrases**

- P370+378 - In case of fire, use CO2, Dry Chemical, Foam or Water Spray to extinguish.
- P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P332+313 - If skin irritation occurs, get medical advice/attention.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P314 - Get medical attention/advice if you feel unwell.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.
P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention. P362 - Take off contaminated clothing.

GHS Storage and Disposal Phrases
P501 - Dispose of contents/container to local, state, and federal authority requirements.
P403+235 - Store in cool/well-ventilated place. P410 - Protect from sunlight.
P405 - Store locked up.

Potential Health Effects (Acute and Chronic)
May cause skin, eye, and respiratory irritation. Substance can be absorbed through the skin in harmful amounts. Signs and symptoms of excessive exposure may be central nervous system effects such as sleepiness and unconsciousness.

Inhalation
May cause respiratory irritation. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.

Skin Contact
May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May be harmful if absorbed through the skin.

Eye Contact
Substance causes moderate eye irritation.

Ingestion
May be harmful if swallowed and enters airways.

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. Polyester Resin (Proprietary)</td>
<td>NA</td>
<td>35 - 50 %</td>
</tr>
<tr>
<td>2. Propylene glycol methyl ether acetate</td>
<td>108-65-6</td>
<td>25 - 35 %</td>
</tr>
<tr>
<td>3. Xylene</td>
<td>1330-20-7</td>
<td>10 - 20 %</td>
</tr>
<tr>
<td>4. Ethyl Benzene</td>
<td>100-41-4</td>
<td>&lt;=0.10 %</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Emergency and First Aid Procedures
Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use first aid treatment according to the nature of the injury.

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. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
In Case of Ingestion
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Pt:</td>
<td>&gt; 60.00 F</td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: NE</td>
</tr>
<tr>
<td></td>
<td>UEL: NE</td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

Fire Fighting Instructions
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards
Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

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

Suitable Extinguishing Media
Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Dry extinguishing media, foam.

Unsuitable Extinguishing Media
Do not use a direct water stream, which may spread fire.

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.
Use personal protective equipment. Remove all sources of ignition. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material.

Protective Precautions, Protective Equipment and Emergency Procedures
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

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

7. Handling and Storage

Hazard Label Information:
Keep away from heat and flame. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in airtight containers

Precautions To Be Taken in Handling
Wear all personal protection required. Wash thoroughly after handling. Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing. When using multi-component systems, be aware of hazards for all components.

Precautions To Be Taken in Storing
Keep away from sources of ignition - No smoking. Store in a tightly closed container. Protect from sunlight and store in well-ventilated place. Store away from incompatible material.

Other Precautions
Keep away from sources of ignition - No smoking. Keep away from heat, sparks, and flame.
8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Polyester Resin (Proprietary)</td>
<td>NA</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Xylene</td>
<td>1330-20-7</td>
<td>PEL: 100 ppm</td>
<td>TLV: 100 ppm</td>
<td>STEL: 150 ppm</td>
</tr>
<tr>
<td>4. Ethyl Benzene</td>
<td>100-41-4</td>
<td>PEL: 100 ppm</td>
<td>TLV: 100 ppm</td>
<td>STEL: 125 ppm</td>
</tr>
</tbody>
</table>

Protective Equipment Summary - Hazard Label Information:

Chemical resistant gloves  Safety glasses, or goggles.  Impervious clothing.  Chemical resistant boots  If required, an approved respirator.

Respiratory Equipment (Specify Type)

Respiratory protection in case of vapor/aerosol release. Combination filter for gases/vapors of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2). In isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications or other situations such as high temperature use which may produce inhalation exposures.

Eye Protection

Safety glasses, or goggles.

Protective Gloves

Nitrile rubber and Neoprene are recommended. Check during use that the gloves are still retaining their protective properties.

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 runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical States:</th>
<th>[ ] Gas</th>
<th>[X] Liquid</th>
<th>[ ] Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>N.E.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>&gt; 60.00 F</td>
<td>Method Used:</td>
<td>Closed Cup</td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: NE</td>
<td>UEL: NE</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (Water = 1):</td>
<td>~ 1.045</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>~ 8.72 LB/GL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1):</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Solubility in Water: NE
Solubility Notes
Partial solubility.
Percent Volatile: ~ 59 % by weight.
VOC / Volume: NP
HAP / Volume: NP
Saturated Vapor Concentration: NE
Appearance and Odor
Odor: Solvent odor.
Appearance: Clear.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]
Reactivity
Avoid uncontrolled contact with isocyanates.
Conditions To Avoid - Instability
Extreme temperatures. Heat, flames and sparks.
Incompatibility - Materials To Avoid
Strong oxidizing agents.
Hazardous Decomposition Or Byproducts
Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.
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

Toxicological Information
May be harmful if absorbed through the skin.
CAS# 1330-20-7:
Acute toxicity, LD50, Oral, Rat, 4300. MG/KG.
Results:
Liver: Other changes.
Kidney, Ureter, Bladder: Other changes.
- AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956

Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H.
Results:
Behavioral: Convulsions or effect on seizure threshold.
Behavioral: Ataxia.
Lungs, Thorax, or Respiration: Dyspnea.

Chronic Toxicological Effects
No data available based on mixture itself.
**Irritation or Corrosion**
May cause skin, eye, and respiratory irritation.

**Symptoms related to Toxicological Characteristics**
May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester Resin (Proprietary)</td>
<td>NA</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>Propylene glycol methyl ether acetate</td>
<td>108-65-6</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>n.a.</td>
<td>3</td>
<td>A4</td>
<td>A3</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>100-41-4</td>
<td>n.a.</td>
<td>2B</td>
<td>A3</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

**12. Ecological Information**

**General Ecological Information**
Avoid release to the environment.

**Results of PBT and vPvB assessment**
No data available.

**Persistence and Degradability**
Not readily biodegradable.

**Bioaccumulative Potential**
No data available.

**Mobility in Soil**
not reported, unknown.

**13. Disposal Considerations**

**Waste Disposal Method**
Dispose of this product, product solutions and its container according to federal, state and local authority requirements. Liquids cannot be disposed of in a landfill. Empty containers may contain product residue. Care should be taken while handling and disposing of empty containers that contain residue. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**14. Transport Information**

**LAND TRANSPORT (US DOT)**
- **DOT Proper Shipping Name**: Resin solution, [flammable] (Contains Xylene, PM Acetate)
- **DOT Hazard Class**: 3
- **DOT Hazard Label**: FLAMMABLE LIQUID
- **UN/NA Number**: UN1866
- **Packing Group**: III
- **Precautionary Label**: Warning! Flammable Liquid. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Vapors or mist may be a fire and explosion hazard when exposed to high temperature or ignition. Ground and bond containers and equipment before transferring to avoid static sparks. Always read Safety Material Data Sheet before use.

**AIR TRANSPORT (ICAO/IATA)**
- **ICAO/IATA Shipping Name**: Resin solution, [flammable] (Contains Xylene, PM Acetate)

Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.
SAFETY DATA SHEET
402 Urethane Topcoat - Clear Part A

UN Number: 1866
Hazard Class: 3 - FLAMMABLE LIQUID
Packing Group: III

MARINE TRANSPORT (IMDG/IMO)
IMDG/IMO Shipping Name: Resin solution, [flammable] (Contains Xylene, PM Acetate)
UN Number: 1866
Hazard Class: 3 - FLAMMABLE LIQUID
Packing Group: III
Marine Pollutant: No

15. Regulatory Information

<table>
<thead>
<tr>
<th>US EPA SARA Title III</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. Polyester Resin (Proprietary)</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>2. Propylene glycol methyl ether acetate</td>
<td>108-65-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Xylene</td>
<td>1330-20-7</td>
<td>No</td>
<td>Yes 100 LB</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>4. Ethyl Benzene</td>
<td>100-41-4</td>
<td>No</td>
<td>Yes 1000 LB</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Regulatory Information
SARA Section 311/312: Acute Health Hazard. Fire 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
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