1. Product Identification

Product name: WR-LPU Clear Satin
SDS Number: 1802A00
Product type: Polyurethane Dispersion Mixture
Recommended use of the chemical and restrictions on use: Marine top coat paint.
Restrictions: None known

Manufacturer/Supplier information
- Company name: SYSTEM THREE RESINS, INC.
- Address: 8517 Commerce Place Dr NE
  Lacey, WA 98516
  United States
- Telephone: 1-253-333-8118
- Website: www.systemthree.com
- Email: support@systemthree.com
- Emergency Contact: CHEMT (U.S. and CANADA) 1-800-704-9215
  CHEMT (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word: DANGER
Toxic to Reproduction (Unborn Child) – Category 1B

GHS Label Elements
Hazard Pictograms

Hazard Statements/Classification of substance or mixture
H360 May damage fertility or the unborn child.

Precautionary statements

Precautionary Statements
Prevention
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response
P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage
P405 Store locked up.

Disposal
P501 Dispose of contents in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)
Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.
3. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>872-50-4</td>
<td>5 – 10%</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>121-44-8</td>
<td>1 – 5%</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</td>
<td>25265-77-4</td>
<td>1 – 5%</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>1 – 5%</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. First-Aid Measures

**Skin contact**
Wash skin thoroughly with soap and water or use recognized skin cleaner. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contacts lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Ingestion**
Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

**Inhalation**
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**
No specific treatment.

5. Fire-Fighting Measures

**Suitable extinguishing media**
All extinguishing media are suitable.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with
<table>
<thead>
<tr>
<th>Hazardous decomposition products</th>
<th>Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Nitrogen oxides Aldehydes Organic acids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective actions for fire-fighters</td>
<td>Promptly evacuate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
</tr>
<tr>
<td>Further information</td>
<td>This material will not support combustion unless the water has evaporated.</td>
</tr>
</tbody>
</table>

### 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Personal precautions</th>
<th>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear properly fitted NIOSH certified respirator when ventilation is inadequate. Wear the appropriate personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency procedures</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also information in “For non-emergency personnel”.</td>
</tr>
<tr>
<td>Methods and materials for containment/cleanup</td>
<td>Stop leak if without risk. Ventilate area. Move containers from spill area. Dilute with water and mop up. Alternatively, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Environmental precautions</td>
<td>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil).</td>
</tr>
</tbody>
</table>

### 7. Handling and Storage

<table>
<thead>
<tr>
<th>Precautions for safe handling</th>
<th>Always wear personal protective equipment when handling (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure — obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear an appropriate respirator. Keep in the original container or an approved alternative made from a compatible hazard, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions/Recommendations for safe/proper storage</td>
<td>Store between 40 to 90 °F (4-32 °C). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, out of the reach of children or pets. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Store in original container, protected from direct sunlight.</td>
</tr>
</tbody>
</table>
## 8. Exposure Controls/Personal Protection

### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>872-50-4</td>
<td>AIHA WEEL (United States, 10/2011). Absorbed through skin.</td>
<td>TWA: 10 ppm 8 hours.</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>121-44-8</td>
<td>ACGIH TLV (United States, 4/2014). Absorbed through skin.</td>
<td>TWA: 1 ppm 8 hours. TWA: 4.1 mg/m3 8 hours. STEL: 3 ppm 15 minutes. STEL 12 mg/m3 15 minutes.</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</td>
<td>25265-77-4</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

#### Appropriate engineering controls

Use only with adequate ventilation. Wear personal protection equipment when handling.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures/Personal protective equipment

- **Eye/face protection**: Splash proof goggles or safety spectacles with side shields are recommended.
- **Hand protection**: Always wear impervious gloves, neoprene, vinyl or rubber.
- **Skin protection**: Wear clean, body-covering clothing to avoid skin contact.
- **Respiratory protection**: Use a properly fitted NIOSH certified respirator, or air-fed respirator complying with an approved standard if risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Special instructions for protection and hygiene

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. Physical and Chemical Properties

- **Chemical family**: Aqueous Urethane
- **Appearance**: Aqueous solution
- **Physical State**: Aqueous solution
Form: Liquid  
Color: Translucent  
Odor: Mild  
Density (Specific Gravity): 8.74 lb/gal (1.05)  
Viscosity: 800 cps @ 25°C  
pH: 8 – 8.5  
Melting point/freezing point: Data not available  
Initial boiling point and boiling range: Approximately 212 °F (100 °C)  
Flash point: >212 °F (100 °C) Closed Cup  
Evaporation rate: Data not available  
Flammability (solid, gas): Data not available  
Upper/lower flammability limit (by volume): Data not available  
Material VOC: ≤370 grams/liter  
Vapor density: Heavier than air  
Relative density: Not determined  
Solubility in water: Data not available  
Partition coefficient: n-octanol/water: Data not available  
Auto-ignition temperature: Data not available  
Decomposition temperature: Data not available

10. Stability and Reactivity

Reactivity: No specific data.  
Chemical Stability: Stable.  
Possibility of hazardous reactions: Hazardous polymerization will not occur.  
Conditions to avoid: No specific data.  
Incompatible materials: No specific data.  
Hazardous decomposition products: No specific data.  
Other hazards: None known.

11. Toxicological Information

Acute Health Hazard (components): No comprehensive data (ingestion, inhalation, dermal) on mixture (product).

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt;5.1 mg/l</td>
<td>4 h</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>8000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>7000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Component</td>
<td>LD50 Oral</td>
<td>Species</td>
<td>Test</td>
<td>Exposure</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>---------</td>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td>Rat</td>
<td>4150 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 Inhalation</td>
<td>7.1 mg/l</td>
<td>4 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>570 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>460 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>460 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>570 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>&gt;3,200 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>&gt;15,200 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guinea Pig</td>
<td>&gt;19,000 mg/kg</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>&gt;2.73 mg/l (highest concentration tested)</td>
<td>6 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>&gt;3.55 mg/l</td>
<td>6 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td>&gt;317,042 mg/m3</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Irritation/Corrosion (components)

No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Test</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethylamine</td>
<td>Skin – mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>365 milligrams</td>
</tr>
<tr>
<td>Skin – visible necrosis</td>
<td>Rabbit</td>
<td>-</td>
<td>1 to 15 minutes</td>
<td></td>
</tr>
<tr>
<td>Eyes – cornea opacity</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</td>
<td>Skin – slight</td>
<td>Rabbit</td>
<td>-</td>
<td>24 h</td>
</tr>
</tbody>
</table>

### Sensitization

No information on product itself.

### Mutagenicity

No information on product itself.

### Carcinogenicity

No information on product itself.

### Reproductive Toxicity

No information on product itself.

### Teratogenicity

No information on product itself.

### Specific target organ toxicity (single exposure)

No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>Category 3</td>
<td>Not applicable</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

No information on product itself.

### Aspiration hazard

No information on product itself.

### Potential acute health effects

**Eye Contact**

No known significant effects or critical hazards.

**Inhalation**

May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin Contact**

Causes skin irritation.

**Ingestion**

Corrosive to digestive tract. Causes burns.

### Symptoms related to the physical, chemical and toxicological characteristics
**Eye Contact**  
No specific data.

**Inhalation**  
Adverse symptoms may include the following:  
- Reduced fetal weight  
- Increase in fetal deaths  
- Skeletal malformations  

**Skin Contact**  
Adverse symptoms may include the following:  
- Irritation  
- Dryness  
- Cracking  
- Reduced fetal weight  
- Increase in fetal deaths  
- Skeletal malformations  

**Ingestion**  
Adverse symptoms may include the following:  
- Stomach pains  
- Reduced fetal weight  
- Increase in fetal deaths  
- Skeletal malformations

**Delayed and immediate effects and also chronic effects from short and long term exposure**  
No information on product itself.

**Potential chronic health effects**  
No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethylamine</td>
<td>Sub-chronic NOAEC Inhalation Vapor</td>
<td>Rat</td>
<td>247 ppm</td>
<td>28 weeks, 6 hours per day.</td>
</tr>
</tbody>
</table>

**General**  
Prolonged or repeated chemical contact can defeat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity**  
No significant effects or critical hazards.

**Mutagenicity**  
No significant effects or critical hazards.

**Teratogenicity**  
May damage the unborn child.

**Developmental effects**  
No significant effects or critical hazards.

**Fertility effects**  
No significant effects or critical hazards.

**Numerical measures of toxicity**  
Data not available.

**Acute toxicity estimates (ATEmix)**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>N/A</td>
</tr>
<tr>
<td>Dermal</td>
<td>N/A</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 12. Ecological Information

**Ecotoxicity**  
No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>Acute EC50: &gt;9000 mg/l</td>
<td>Bacteria</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50: &gt;1000 mg/l</td>
<td>Daphnia</td>
<td>24 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50: &gt;600 mg/l</td>
<td>Micro-organism</td>
<td>0.5 h</td>
</tr>
</tbody>
</table>
Acute IC50: >500 mg/l  
Algae  
72 h

Acute LC50: >500 mg/l  
Fish  
96 h

Chronic NOEC: 12.5 mg/l  
Daphnia  
21 days

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate

Acute LC50: 33 mg/l  
Fathead Minnow  
96 h

Acute EC50: 147.8 mg/l  
Water flea  
48 h

ErC50: >57 mg/l  
Algae  
72 h

Triethylamine

Acute EC50: 1.167 mg/l  
Algae  
96 h

Acute EC50: 95 mg/l  
Bacteria  
17 h

Acute EC50: 17 mg/l  
Daphnia  
48 h

Acute LC50: 36 mg/l  
Fish  
96 h

Acute NOAEC: 12 mg/l  
Daphnia  
48 h

Chronic NOEC: 7.1 mg/l  
Daphnia  
7 days

### Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>301C Ready Biodegradability – Modified MITI Test (I)</td>
<td>28 days</td>
<td>73% - Readily</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>OECD 301B Ready Biodegradability – CO2 Evolution Test</td>
<td>21 days</td>
<td>80% - Readily</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol monoisobutyrate</td>
<td>Ready Biodegradability – CO2 Evolution Test</td>
<td>28 days</td>
<td>77% - Readily</td>
</tr>
</tbody>
</table>

### Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Component</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>-0.46</td>
<td>0.2</td>
<td>Low</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>1.45</td>
<td>&lt;0.5</td>
<td>Low</td>
</tr>
</tbody>
</table>

### Mobility in Soil

Soil/water partition coefficient (KOC) Not available.

Other adverse effects No known significant effects or critical hazards.

### 13. Disposal Considerations

**Waste from residues/ unused products**
The generation of waste should be avoided wherever possible. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus product via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Contaminated packaging**
Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14. Transport Information
The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

**International Transport Regulations**

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN/NA number</th>
<th>Proper Shipping Name</th>
<th>Classes/*PG</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*PG: Packing group

**Special precautions for user:** Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## 15. Regulatory Information

### UNITED STATES

**U.S. Federal Regulations**

- **United States – TSCA 12(b) – Chemical export notification:** None Required.
- **United States – TSCA 5(a)2 – Final significant new use rules:** Not Listed.
- **United States – TSCA 5(a)2 – Proposed significant new use rules:** Not Listed.
- **United States – TSCA 5(e) – Substance consent order:** Not listed.

**Clean Air Act – Ozone Depleting Substances (ODS)**

None known.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylamine</td>
<td>1.8046</td>
</tr>
</tbody>
</table>

**Pennsylvania – RTK**

2-Pyrrolidinone, 1-methyl-, propylene glycol

**California Prop. 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Cancer</th>
<th>Reproductive</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>No.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

**EPA SARA 302 Extremely Hazardous Substances**

None known.

**EPA SARA 302/304/311/312 Hazardous Chemicals**

None known.

**SARA 313 Form R – Reporting requirements**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td>8.5</td>
</tr>
<tr>
<td>Triethylamine</td>
<td>1.8</td>
</tr>
</tbody>
</table>

**CERCLA Hazardous substances**

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>Section 304 CERCLA Hazardous Substance</th>
<th>CERCLA Reportable Quantity (Lbs)</th>
<th>Product Reportable Quantity (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-methyl-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylamine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**United States inventory (TSCA 8b)**

All components are listed or exempted.
CANADA

WHMIS (Canada) None.
Canadian NPRI None required.
CEPA Toxic substances None required.

INTERNATIONAL REGULATIONS

International Lists
Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
New Zealand inventory (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan inventory (CSNN): All components are listed or exempted.

16. Other Information, Including Date of Preparation or Last Revision

HMIS Rating

| Health 2 | Flammability 1 | Physical Hazard 0 |

Date of Preparation January 13, 2020
Date of Last Revision September 27, 2019
Revision # 4.0
More Information 1-253-333-8118
Prepared by System Three Resins Inc.

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