SAFETY DATA SHEET

1. Product Identification

Product name: SilverTip® Yacht Primer, Part B
SDS Number: 1710800
Product type: Polyamide Coating Hardener
Recommended use of the chemical and restrictions on use: Paint primer for marine use.
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: CHEMTEL (U.S. and CANADA) 1-800-704-9215, CHEMTEL (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word: WARNING
- Skin Corrosion/Irritation - Category 2
- Serious Eye Damage/Eye Irritation - Category 1
- Skin Sensitization - Category 1

GHS Label Elements
- Hazard Pictograms

Hazard Statements/Classification of substance or mixture:
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye damage.

Precautionary statements

Precautionary Statements
- Prevention: P261 Avoid breathing vapors.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P304 + 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
3. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide Resin</td>
<td>Trade Secret</td>
<td>15 – 25%</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>10 – 15%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>1 – 2%</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**
Remove contaminated clothing and shoes and wipe excess off skin. Flush skin with water. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned. Contaminated leather articles (shoes) cannot be decontaminated and should be destroyed.

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

**Ingestion**
Do not induce vomiting unless directed to do so by medical personnel. 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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

**Inhalation**
Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

**Indication of immediate medical attention and special treatment needed, if necessary**
Notes to physician
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**
No specific treatment.

5. Fire-Fighting Measures

**Suitable extinguishing media**
Alcohol-resistant foam, carbon dioxide (CO₂), dry chemical, water fog.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
Potential skin irritation. Toxic fumes may be evolved when this substance is burned. Incomplete combustion may for carbon monoxide. Downwind personnel must be evacuated.

**Hazardous decomposition products**
Decomposition products may include the following materials:
| Special protective actions for fire-fighters | Carbon dioxide  
Carbon monoxide  
Promptly isolate 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. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Further information | Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

## 6. Accidental Release Measures

| Personal precautions | Wear proper personal protective equipment (PPE). Avoid direct contact with material. Proper PPE includes: disposable gloves, eye protection and skin protection. |
| Emergency procedures | If materials is spilled, avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete. |
| Methods and materials for containment/cleanup | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. |
| Environmental precautions | 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 or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |

## 7. Handling and Storage

| Precautions for safe handling | Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke. |
| Precautions/Recommendations for safe/proper storage | Store epoxy products in temperature stable environment, out of the reach of pets or children. Securely fasten container lids and tops, and prevent products from sitting and below freezing temperatures. |

## 8. Exposure Controls/Personal Protection

| Occupational Exposure Limits | None established. |
| Appropriate engineering controls | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| Environmental exposure controls | Use appropriate containment to avoid environmental contamination. Do not allow spill to enter sewers or waterways. |
Individual protection measures/Personal protective equipment

Eye/face protection
Splash-proof goggles or safety spectacles with side shields are recommended. Always wear eye protection when sanding cured epoxy resins to avoid dust in eyes.

Hand protection
Always wear impervious gloves: butyl rubber, nitrile rubber, Neoprene, PVC disposable gloves,

Skin protection
Wear clean, body-covering clothing to avoid skin contact.

Respiratory protection
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a 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
Wear gloves at all times when handling product, avoid direct contact with skin. When finished using product, dispose of gloves properly and wash hands with warm, soapy water.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Chemical family</th>
<th>Epoxy Hardener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gray liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Polyamide/water mixture</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Density (Specific Gravity)</td>
<td>11.5 – 11.7 lbs/gal (1.38 – 1.40 g/cm³)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2,300 – 2,500 CPS @ 25°C</td>
</tr>
<tr>
<td>pH</td>
<td>9.57</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;212°F (&gt;100°C), Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Upper/lower flammability limit (by volume)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Material VOC</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Negligible, in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Data not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Data not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Data not available</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity
Reactivity
No specific test data related to reactivity available for this product.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
None known.

Incompatible materials
Strong oxidizing and reducing agents. Lewis and mineral acids.

Hazardous decomposition products
Oxides of carbon, aldehydes, and acids.

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>Polyamide Resin</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2,960 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion (components)
No information on the 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>Polyamide Resin</td>
<td>Moderate irritation</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Severe eye irritation</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization
No information on the product itself.

Mutagenicity
No information on the product itself.

Carcinogenicity
No information on the product itself.

Reproductive Toxicity
No information on the product itself.

Teratogenicity
No information on the product itself.

Specific target organ toxicity (single exposure)
No information on the product itself.

Specific target organ toxicity (repeated exposure)
No information on the product itself.

Aspiration hazard
No information on the product itself.

Potential acute health effects

Eye Contact
Causes serious eye damage.

Inhalation
May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Skin Contact
Causes skin irritation. May cause an allergic skin reaction.

Ingestion
No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact
Adverse symptoms may include the following:
- Pain
- Watering
- Redness

Inhalation
Adverse symptoms may include the following:
- Respiratory tract irritation
- Coughing
Skin Contact

Adverse symptoms may include the following:
- Irritation
- Redness

Ingestion

No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Not available.

Potential chronic health effects

General

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates (ATEmix)

No specific data.

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>Isopropyl Alcohol</td>
<td>Acute LC50: 10,000 mg/l</td>
<td>Artemia salina</td>
<td>24 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50: 10,000 mg/l</td>
<td>Daphnia magna</td>
<td>24 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50: 900 – 1,950 gm/l</td>
<td>Crangon crangon</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50: 750 – 1,650 gm/l</td>
<td>Crangon crangon</td>
<td>96 h</td>
</tr>
</tbody>
</table>

Persistence and degradability

No information on product itself.

Bioaccumulative Potential

No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>0.05</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Mobility in Soil

Soil/water partition coefficient (KOC)

No information on product itself.

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 or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Product should not be allowed to enter drains, water courses or the soil; dispose of this material and its containers in a safe way. Contact supplier if guidance is required.
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>Non-regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Non-regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td></td>
<td>Non-regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td></td>
<td>Non-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


Clean Air Act – Ozone Depleting Substances (ODS)
This product does not contain nor is it manufactured with ozone depleting substances.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPS)
None.

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

EPA SARA 302 Extremely Hazardous Substances
None required.

EPA SARA 302/304/311/312 Hazardous Chemicals
None.

SARA 313 Form R – Reporting requirements
None required.

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 14, 2020
Date of Last Revision: September 27, 2019
Revision #: 4.0
Prepared by: System Three Resins Inc.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.