Section 1. Identification

Product Name: Deckguard Primer - Part B
Other Means of Identification: Not available.
Physical State: Liquid
Material Uses: Component of a Polyurethane System
Restrictions on Use: No data.
Supplier: The D.S. Brown Company
300 East Cherry Street
North Baltimore, Ohio 45872
Company Phone Number: 419-257-3561
In Case of Emergency: Chemtrec 1-800-262-8200 International 01-703-741-5500

Section 2. Hazards Identification

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the Substance or Mixture: Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2A
Skin sensitization - Category 1

GHS LABEL ELEMENTS
Hazard Pictogram:

Signal Word: Warning!
Hazard Statements: Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.

Precautionary Statements: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
If on skin: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards Which Do Not Result in Classification: None known.
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>26316-40-5</td>
<td>30 – 60</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>919-30-2</td>
<td>0.1 – 1</td>
</tr>
</tbody>
</table>

Any concentration show as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

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

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not 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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a 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.

Skin Contact: Wash with plenty of soap and water. 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. 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 if adverse health effects persist or are severe. 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 a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: POTENTIAL ACUTE HEALTH EFFECTS

Eye Contact: Causes serious eye irritation.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

Ingestion: Irritating to mouth, throat and stomach.
Section 4. First Aid Measures cont’d.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: OVER-EXPOSURE SIGNS/SYMPTOMS

Eye Contact : Adverse symptoms may include the following:
   - pain or irritation
   - watering
   - redness

Inhalation : No specific data.

Skin Contact : Adverse symptoms may include the following:
   - irritation
   - redness

Ingestion : No specific data.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Notes to Physician : No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

Protection of First-Aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-Fighting Measures

Flashpoint : Closed cup: >110°C (>230°F)

EXTINGUISHING MEDIA

Suitable Extinguishing Media : Use an extinguishing agent suitable for the surrounding fire.

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.

Hazardous Thermal Decomposition Products : Decomposition products may include the following materials:
   - carbon dioxide
   - carbon monoxide
   - nitrogen oxides
   - metal oxide/oxides

Special Protective Actions for Fire-Fighters : 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.
Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For Non-Emergency Personnel:
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 appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

For Emergency Responders:
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 the information in "For non-emergency personnel".

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).

Methods for Cleaning Up:
Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Protective Measures:
Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on General Occupational Hygiene:
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. See also Section 8 for additional information on hygiene measures.
Section 7. Handling and Storage cont’d.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Advice on Safe Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection

CONTROL PARAMETERS

Appropriate Engineering Controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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

Hygiene Measures: 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.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Section 8. Exposure Controls/Personal Protection cont’d.

PERSONAL PROTECTION cont’d.

**Body Protection**: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other Skin Protection**: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**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.

**Thermal Hazards**: Not available.

Section 9. Physical and Chemical Properties

**Appearance**
- **Physical State**: Liquid
- **Color**: Not available.
- **Odor**: Not available.
- **Odor Threshold**: Not available.
- **pH**: Not available.
- **Boiling/Condensation Point**: Not available.
- **Melting/Freezing Point**: Not available.
- **Flash Point**: Closed cup: >110°C (>230°F)
- **Evaporation Rate**: Not available.
- **Flammability (Solid, Gas)**: Not available.
- **Lower and Upper Explosive Flammable Limits**: Not available.
- **Vapor Pressure**: Not available.
- **Vapor Density**: Not available.
- **Relative Density**: 0.96
- **Solubility in Water**: Not available.
- **Partition Coefficient: n-Octanol/Water**: Not available.
- **Auto-Ignition Temperature**: Not available.
- **Decomposition Temperature**: Not available.
- **Viscosity**: Dynamic (room temperature): 817 mPa·s (817 cP)
**Section 10. Stability and Reactivity**

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability: The product is stable.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: No specific data.

Incompatible Materials: No specific data.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological Information**

### Acute Toxicity

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Endpoint</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>–</td>
<td>LD50 Dermal</td>
<td>Rabbit - Male, Female</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>LD50 Oral</td>
<td>Rat-Male, Female</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>OECD 403 Acute Inhalation Toxicity</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat-Male</td>
<td>&gt;5 ppm</td>
</tr>
<tr>
<td></td>
<td>EPA OPPTS EPA OTS 798.1100</td>
<td>LD50 Dermal</td>
<td>Rabbit-Male, Female</td>
<td>4075 mg/kg</td>
</tr>
<tr>
<td></td>
<td>EPA OPPTS EPA OTS 798.1115</td>
<td>LD50 Oral</td>
<td>Rat-Male, Female</td>
<td>1491 to 2688 mgl/kg</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>EPA OPPTS OPPTS 870.2500 Acute Dermal Irritation</td>
<td>Rabbit</td>
<td>Skin-Non-irritant</td>
</tr>
<tr>
<td></td>
<td>OECD 405 Acute Eye Irritation/Corrosion</td>
<td>Rabbit</td>
<td>Eyes-Severe irritant</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>OECD 405 Acute Eye Irritation/Corrosion</td>
<td>Rabbit</td>
<td>Eyes-Corrosive</td>
</tr>
<tr>
<td></td>
<td>OECD 404 Acute Dermal Irritation/Corrosion</td>
<td>Rabbit</td>
<td>Skin-Corrosive</td>
</tr>
</tbody>
</table>

### Conclusion/Summary

**Skin:**
- Polyether polyol: Non-irritating to the skin.
- 3-Aminopropyltriethoxysilane: Corrosive to the skin.

**Eyes:**
- Polyether polyol: Severely irritating to eyes.
- 3-Aminopropyltriethoxysilane: Corrosive to the eyes.

**Respiratory:**
- Polyether polyol: No additional information.
- 3-Aminopropyltriethoxysilane: No additional information.
Section 11. Toxicological Information cont’d.

Sensitization

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Route of Exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>-</td>
<td>Skin</td>
<td>Mouse</td>
<td>Sensitizing</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>-</td>
<td>Skin</td>
<td>Guinea Pig</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>

Mutagenicity

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>Experiment: In vitro; Subject: Mammalian-Animal</td>
<td>Negative</td>
</tr>
<tr>
<td></td>
<td>Metabolic activation: +/-</td>
<td>Negative</td>
</tr>
<tr>
<td></td>
<td>Experiment In vitro; Subject: Bacteria/yeast</td>
<td>Negative</td>
</tr>
<tr>
<td></td>
<td>Metabolic activation: +/-</td>
<td>Negative</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>Experiment: In vivo; Subject: Mammalian-Animal</td>
<td>Negative</td>
</tr>
</tbody>
</table>

Conclusion/Summary

3-aminopropyltriethoxysilane: The weight of the scientific evidence indicates that this material is non-genotoxic.

Carcinogenicity

Not available.

Reproductive Toxicity

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Species</th>
<th>Maternal Toxicity</th>
<th>Fertility</th>
<th>Developmental Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>OECD 421 Reproduction- Development Toxicity Screening Test</td>
<td>Rat – Male, Female</td>
<td>Negative</td>
<td>Negative</td>
<td>Negative</td>
</tr>
</tbody>
</table>

Teratogenicity

Not available.

Specific Target Organ Toxicity (Single Exposure)

Not available.

Specific Target Organ Toxicity (Repeated Exposure)

Not available.

Aspiration Hazard

Not available.

Information on the Likely Routes of Exposure

Not available.
Section 11. Toxicological Information cont’d.

**POTENTIAL ACUTE HEALTH EFFECTS**

<table>
<thead>
<tr>
<th>Exposure Type</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Exposure to decomposition products may cause a health hazard. Serious effects maybe delayed following exposure.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Causes skin irritation. May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Irritating to mouth, throat and stomach.</td>
</tr>
</tbody>
</table>

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Exposure Type</th>
<th>Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</td>
<td>Adverse symptoms may include the following: pain or irritation, watering, redness</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Adverse symptoms may include the following: irritation, redness</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM EXPOSURE**

**SHORT-TERM EXPOSURE**

- **Potential Immediate Effects**: Not available.
- **Potential Delayed Effects**: Not available.

**LONG-TERM EXPOSURE**

- **Potential Immediate Effects**: Not available.
- **Potential Delayed Effects**: Not available.

**Potential Chronic Health Effects**

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Endpoint</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>Unknown guidelines</td>
<td>Sub-chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>&gt;1000 mg/kg/d</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents</td>
<td>Sub-chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>200 mg/kg</td>
</tr>
</tbody>
</table>

**General**: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
### Section 11. Toxicological Information cont’d.

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Developmental Effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Fertility effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### NUMERICAL MEASURES

**Acute Toxicity Estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>53136.5 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>433062.5 mg/kg</td>
</tr>
</tbody>
</table>

**Other Information**

Not available.

### Section 12. Ecological Information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Endpoint</th>
<th>Exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>EU EC C.3 Algal Inhibition Test</td>
<td>Acute</td>
<td>EC50</td>
<td>Algae</td>
<td>150.67 mg/l</td>
</tr>
<tr>
<td></td>
<td>OECD 202 Daphnia sp. Acute Immobilization Test</td>
<td>Acute</td>
<td>EC50</td>
<td>Daphnia</td>
<td>103 mg/l</td>
</tr>
<tr>
<td></td>
<td>EU EC C.11 Biodegradation: Activated Sludge Respiration Inhibition Test.</td>
<td>Acute</td>
<td>IC50</td>
<td>Bacteria</td>
<td>&gt;10000 mg/l</td>
</tr>
<tr>
<td></td>
<td>OECD 203 Fish, Acute Toxicity Test</td>
<td>Acute</td>
<td>LC50</td>
<td>Fish</td>
<td>25600 mg/l</td>
</tr>
<tr>
<td></td>
<td>OECD 211 <em>Daphnia Magna</em>, Reproduction Test</td>
<td>Chronic</td>
<td>NOEC</td>
<td>Daphnia</td>
<td>&gt;10 mg/l</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>EU EC C.3 Algal Inhibition Test</td>
<td>Acute</td>
<td>EC50</td>
<td>Algae</td>
<td>&gt;1000 mg/l</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>Acute</td>
<td>EC50</td>
<td>Bacteria</td>
<td>43 mg/l</td>
</tr>
<tr>
<td></td>
<td>OECD 202 Daphnia sp. Acute Immobilization Test</td>
<td>Acute</td>
<td>EC50</td>
<td>Daphnia</td>
<td>331 mg/l</td>
</tr>
<tr>
<td></td>
<td>OECD 203 Fish, Acute Toxicity Test</td>
<td>Acute</td>
<td>LC50</td>
<td>Fish</td>
<td>&gt;934 mg/l</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity Test EU EC C.3 Algal Inhibition Test</td>
<td>Chronic</td>
<td>NOECr</td>
<td>Algae</td>
<td>1.3 mg/l</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information cont’d.

Persistence and Degradability

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Test</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>EU</td>
<td>28 days</td>
<td>2%</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>EU EC C.4-A Biodegradation: Determination of the “Ready” Biodegradability: Dissolved Organic Carbon (DOC) Die-Away Test</td>
<td>28 days</td>
<td>67%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>Aquatic Half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Product/Ingredient Name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol</td>
<td>-1.25 to 1.2</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>3-Aminopropyltriethoxysilane</td>
<td>1.7</td>
<td>3.4</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in Soil: Not available.

Other Adverse Effects: No known significant effects or critical hazards.

Other Ecological Information

BOD5: Not determined.
COD: Not determined.
TOC: Not determined.

Section 13. Disposal Considerations

Waste Disposal: 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. Dispose of surplus and non-recyclable products via a licensed water disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Section 14. Transport Information

Proper Shipping Name
- DOT: Not regulated.
- TDG: Not regulated.
- IMDG: Not regulated.
- IATA: Not regulated.

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>Classes</th>
<th>Packing Group</th>
<th>Label</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>Not Regulated</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TDG Classification</td>
<td>Not Regulated</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>Not Regulated</td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IATA-DGR Class</td>
<td>Not Regulated</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>

Section 15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

US FEDERAL REGULATIONS

- TSCA 8(b) Inventory: All components are listed or exempted.
- TSCA 5(a)2 Final Significant New Use Rule (SNUR): No ingredients list.
- TSCA 5(e) Substance Consent Order: No ingredients listed.
- TSCA 12(b) Export Notification: No ingredients listed.
- SARA 311/312: Immediate (acute) health hazard.
- Clear Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances.
- SARA 313: No ingredients listed.

CERCLA Hazardous Substances

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration % Percentage</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>Methanol</td>
<td>0.025</td>
<td>Listed</td>
<td>5000</td>
<td>20000000</td>
</tr>
</tbody>
</table>
Section 15. Regulatory Information  cont’d.

STATE REGULATIONS

Pennsylvania - RTK  :  No ingredients listed.
California Prop 65:  :  **WARNING:** This product contains less than 1% of 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>Methanol</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS

Canadian Regulations
CEPA DSL  :  All components are listed or exempted.
WHMIS (Canada)  :  Class E: Corrosive material.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.**

Brazil Regulations
Classification System Used  :  Norma ABNT-NBR 14725-2:2012
International Lists  :  Australia inventory (AICS): Not determined.
                      China inventory (IECSC): All components are listed or exempted.
                      Japan inventory: Not determined.
                      Korea inventory: Not determined.
                      Malaysia Inventory (EHS Register): Not determined.
                      New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Section 16. Other Information

Hazardous Material
Information System (USA)  :  Health: 2
                           Flammability: 1
                           Physical Hazards: 0
                           Personal Protection

The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
Section 16. Other Information

National Fire Protection Association (USA):
- Health: 2
- Flammability: 1
- Instability: 0
- Special

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Further Information:
- Not available.

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Date of Previous Version:
- No previous validation.

Version:
- 1

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances of other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

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