Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: UREPRIME PRIMER-SURFACER YELLOW
Product Code: 33112
Document ID: M33112
Company: JONES-BLAIR® Company
2728 Empire Central
Dallas, TX 75235
1-214-353-1600
Revision Number: 1
Prior Version Date: None
Chemical Family: Epoxy Urethane Primer-Surfercer
Intended use: Shop Application Coating
Emergency Contact: ChemTrec Center
Emergency Phone: 1-800-424-9300
International: 703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING!
Flammable liquid and vapor.  
Causes skin irritation.  
Causes eye irritation.  
Vapor harmful.  
May be harmful if absorbed through skin.

Routes of Entry:
- Inhalation
- Ingestion
- Skin contact
- Eye contact
- Skin absorption

Target Organs Potentially Affected by Exposure:
- Eyes
- Central nervous system
- Blood
- Skin
- Respiratory Tract
- Liver
- Kidneys

Medical Conditions Aggravated by Exposure:
- Eye disorders.
- Skin disorders.
- Respiratory disorders, including but not limited to asthma and bronchitis.
- Central Nervous System.
- Liver disease
- Kidney disease
- Eye irritation when/if dust or spray mist is generated.

Immediate (Acute) Health Effects by Route of Exposure:
Inhalation Irritation: Causes lung irritation. Causes nose and throat irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Harmful if inhaled.
Inhalation Toxicity: Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
Skin Contact: Can cause moderate skin irritation. May cause allergic skin reaction.
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**Revision Date:** 04-01-2014  
**Product Code:** 33112

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**Skin Absorption:** May cause severe irritation and systemic damage. May be harmful if absorbed through skin.

**Eye Contact:** Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

**Ingestion Toxicity:** Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

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**Long-Term (Chronic) Health Effects:**

**Carcinogenicity:** Contains Titanium Dioxide which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence with respect to humans and sufficient evidence in experimental animals.

Cancer hazard: Contains Crystalline Silica, which can cause cancer. Risk of cancer depends on duration and level of exposure to dust generated from sanding surfaces or spray mists.

Possible cancer hazard. Contains ethylbenzene which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)

**Reproductive and Developmental Toxicity:** Contains Dimethyl carbonate which has shown teratogenic effects at very high doses (3000 ppm) in one mouse assay. No effects were observed at lower doses. Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure.

**Mutagenicity:** Xylene has been shown to be positive in mutagenicity assays.

**Inhalation:** Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Overexposure may cause lung damage.

**Skin Contact:** Prolonged or excessive exposure may result in adverse effects. Prolonged contact may cause an allergic skin reaction.

**Skin Absorption:** Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage.

**Ingestion:** Prolonged or repeated overexposure may cause central nervous system, kidney and liver damage.

**Chronic Effects of Exposure:** Warning: Contains Butoxy Ethyl Acetate which may cause blood disorders and kidney damage based on animal data.

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**III. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>%</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Carbonate</td>
<td>10 - 30</td>
<td>616-38-6</td>
</tr>
<tr>
<td>Polymer of Epoxy Resin and bisphenol A</td>
<td>7 - 13</td>
<td>25036-25-3</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride (PCBTF)</td>
<td>7 - 13</td>
<td>98-56-6</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>5 - 10</td>
<td>112-07-2</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>5 - 10</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Methoxypropyl acetate</td>
<td>3 - 7</td>
<td>108-65-6</td>
</tr>
<tr>
<td>Zinc Phosphate (Nuisance Dust)</td>
<td>1 - 5</td>
<td>7779-90-0</td>
</tr>
<tr>
<td>Talc</td>
<td>1 - 5</td>
<td>14807-96-6</td>
</tr>
<tr>
<td>Cristobalite (Silica-Crystalline)</td>
<td>1 - 5</td>
<td>14464-46-1</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>1 - 5</td>
<td>108-94-1</td>
</tr>
<tr>
<td>Xylene</td>
<td>1 - 5</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Zinc Compounds</td>
<td>1 - 5</td>
<td>60580-61-2</td>
</tr>
<tr>
<td>Crystalline Aluminosilicate</td>
<td>1 - 5</td>
<td>1318-02-1</td>
</tr>
<tr>
<td>Ferric oxide (Nuisance Dust)</td>
<td>1 - 5</td>
<td>1309-37-1</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>0.5 - 1.5</td>
<td>123-86-4</td>
</tr>
<tr>
<td>Glycidoxypropyl Trimethoxysilane</td>
<td>0.5 - 1.5</td>
<td>2530-83-8</td>
</tr>
</tbody>
</table>
IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Eyes: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Thoroughly wash or discard clothing and shoes before reuse.

Ingestion: If swallowed, do not induce vomiting. Get medical attention immediately. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

Notes to Doctor: No additional first aid information available

V. FIRE FIGHTING MEASURES

Flammability Summary: Flammable liquid and vapor.

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Explosive vapor could form. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Sulfur containing gases

Flash Point (°F/°C): 67 / 19
Autoignition Temperature (°F/°C): 631.0 / 333.0
Lower Flammable/Explosive Limit, % in air: 0.5
Upper Flammable/Explosive Limit, % in air: 10.5

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed...
VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Remove contaminated clothing and wash before reuse.

Storage Technical Measures and Conditions: Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Explosion proof exhaust ventilation should be used.

Respiratory Protection: General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

Skin Protection: Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact. Wear chemical resistant gloves.

Control Parameters:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH STEL</th>
<th>OSHA PEL-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>20 ppm TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ TWA</td>
<td></td>
<td>15 mg/m³ TWA (total dust)</td>
</tr>
<tr>
<td>Zinc Phosphate (Nuisance Dust)</td>
<td></td>
<td></td>
<td>5 mg/m³ (Respirable Fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15 mg/m³ (Total Dust)</td>
</tr>
<tr>
<td>Talc</td>
<td>20 mppcf TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cristobalite (Silica-Crystalline)</td>
<td>0.05 mg/m³ TWA (this TLV is for the respirable fraction of dust)</td>
<td></td>
<td>see Table Z-3</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>20 ppm TWA; 50 mg/m³ TWA</td>
<td>150 ppm STEL; 651 mg/m³ STEL</td>
<td>50 ppm TWA; 200 mg/m³ TWA</td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Ferric oxide (Nuisance Dust)</td>
<td>as Fe: 5 mg/m³ TWA (welding fumes, dust, total particulate (N.O.C.))</td>
<td>10 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>150 ppm TWA; 713 mg/m³ TWA</td>
<td>200 ppm STEL; 950 mg/m³ STEL</td>
<td>150 ppm TWA; 710 mg/m³ TWA</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100 ppm TWA; 434 mg/m³ TWA</td>
<td>125 ppm STEL; 543 mg/m³ STEL</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
</tr>
<tr>
<td>Quartz (Silica-Crystalline)</td>
<td>0.05 mg/m³ TWA (respirable fraction)</td>
<td></td>
<td>see Table Z-3</td>
</tr>
</tbody>
</table>

IX. PHYSICAL AND CHEMICAL PROPERTIES
XII. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral</strong></td>
<td><strong>Male</strong></td>
<td><strong>Female</strong></td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>LD50 Rat 12,900 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral LD50 Rabbit 6000 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rat &gt; 2500 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 Rat &gt; 140 mg/L</td>
</tr>
<tr>
<td>Polymer of Epoxy Resin and bisphenol A</td>
<td>25036-25-3</td>
<td>LD50 &gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rat &gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Parachlorobenzotrifluoride (PCBTF)</td>
<td>98-56-6</td>
<td>LD50 Rat 11,500 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 Rat 20 g/m3</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether acetate</td>
<td>112-07-2</td>
<td>LD50 Male Rat 3000 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 Female Rat 2400 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 Mouse 3200 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rabbit 1500 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 (6h) Rat &gt; 450 ppm</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>LD50 Rat &gt; 25 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rabbit &gt; 10 g/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 (4h) Rat &gt; 7 mg/L</td>
</tr>
<tr>
<td>Methoxypropanol acetate</td>
<td>108-65-6</td>
<td>LD50 Rat 8532 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rabbit &gt; 5000 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Inhalation LC50 (4h) Rat &gt; 100 ppm</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>LD50 Rat 1535 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dermal LD50 Rabbit 1111 mg/kg</td>
</tr>
</tbody>
</table>
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Inhalation LC50 (4h) Rat 8000 ppm
Oral LD50 Rat 4300 mg/kg
Dermal LD50 Rabbit 4350 mg/kg
Inhalation LC50 (4h) Rat 5334 mg/L

Inhalation LC50 (6h) Rat > 1800 ppm

Oral LD50 Rat > 22,500 mg/kg

Carcinogens:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cristobalite (Silica-Crystalline)</td>
<td>14464-46-1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

Overview: No data available

Mobility: No data available

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods: Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

XIV. TRANSPORTATION INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint
Hazard Class: 3
UN Number: UN1263
Packing Group: II
Other: This product qualifies for a limited quantity exception per CFR173.150(b)(2) and 172.102 Special Provision 149 for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

Marine Pollutant: No

XV. REGULATORY INFORMATION

United States Federal Regulations:
TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

SARA EHS Chemicals

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Not applicable

CERCLA
Cyclohexanone 108-94-1 1 - 5
Xylene (mixed isomers) 1330-20-7 1 - 5
n-Butyl Acetate 123-86-4 0.5 - 1.5
Ethyl Benzene 100-41-4 0.1 - 1

SARA 313
Ethylene glycol monobutyl ether acetate 112-07-2 5 - 10
Trizinc diphosphate 7779-90-0 1 - 5
Xylene (mixed isomers) 1330-20-7 1 - 5
1,3-Benzenedicarboxylic acid, 5-nitro-, zinc salt (1:1) 60580-61-2 1 - 5
Ethylbenzene 100-41-4 0.1 - 1

SARA 311/312
Health (Acute): Y
Health (chronic): Y
Fire (Flammable): Y
Pressure: N
Reactivity: N

U. S. State Regulations:
California Prop 65 Chemicals
Cancer
Titanium dioxide 13463-67-7 5 - 10
Cristobalite (Silica, Crystalline (Respirable Size)) 14464-46-1 1 - 5
Ethyl Benzene 100-41-4 0.1 - 1
Crystalline Silica 14808-60-7 0.1 - 1
Carbon Black 1333-86-4 0.001 - 0.01
Benzene 71-43-2 < 10 ppm
Lead 7439-92-1 < 10 ppm
Reproductive
Toluene 108-88-3 0.01 - 0.1
Methyl Alcohol 67-56-1 0.01 - 0.1
Benzene 71-43-2 < 10 ppm
Lead 7439-92-1 < 10 ppm

Canadian Regulations:
CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS Hazard Class: B2 D2A

XVI. ADDITIONAL INFORMATION
Prepared By: Regulatory Department
Disclaimer: This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.
Print Date: July 31, 2014