SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : Porcelain Primer

1.2. Recommended use and restrictions on use
Use of the substance/mixture : For RX only

1.3. Supplier
Manufacturer
Bisco, Inc.
1100 W. Irving Park Rd.
Schaumburg, IL 60193
T +1.847.534.6000 - F +1.847.891.5049
sales@bisco.com - www.bisco.com

1.4. Emergency telephone number
Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center
   Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture
GHS-US classification
Flammable liquids Category 2
H225 - Highly flammable liquid and vapor
Serious eye damage/eye irritation Category 2
H319 - Causes serious eye irritation
Skin sensitization, Category 1
H317 - May cause an allergic skin reaction
Specific target organ toxicity (single exposure) Category 3
H335 - May cause respiratory irritation
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US labeling
Hazard pictograms (GHS-US) :

Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, face protection, protective gloves
P302+P352 - If on skin: Wash with plenty of Wash skin with soap and water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, Call a doctor if you feel unwell
P321 - Specific treatment (see First aid measures on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, dry sand, extinguishing powder to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose in a safe manner in accordance with local/national regulations

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone, ACS Grade</td>
<td>(CAS-No.) 67-64-1</td>
<td>30 - 50</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>Ethanol/Denatured 190 PROOF</td>
<td>(CAS-No.) 64-17-5</td>
<td>30 - 50</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid</td>
<td>(CAS-No.) 2530-85-0</td>
<td>1 - 5</td>
<td>Skin Sens. 1B, H317</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact: Wash with water and soap. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see First aid measures on this label). Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Obtain medical attention if pain, blinking or redness persists.


4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation: May cause an allergic skin reaction. May cause respiratory irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard: Combustible. Highly flammable liquid and vapor.

Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Avoid breathing mist, vapors. Use only outdoors or in a well-ventilated area.

Handling temperature: 20 - 25 °C

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/… equipment.

Storage conditions: Store in a dry place. Keep only in the original container in a cool, well ventilated place away from: Keep in fireproof place. Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

Storage temperature: 20 - 25 °C

Storage area: Store in a well-ventilated place. Store in a dry area. Store in a cool area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Acetone, ACS Grade</th>
<th>(67-64-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>550 ppm</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>2400 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>250 ppm</td>
</tr>
</tbody>
</table>

3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid (2530-85-0)

Not applicable

Ethanol/Denatured 190 PROOF (64-17-5)

Not applicable
Porcelain Primer
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Appropriate engineering controls
No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Avoid all unnecessary exposure.

Hand protection:
Wear protective gloves

Eye protection:
Chemical goggles or safety glasses

Respiratory protection:
Wear appropriate mask

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, colorless liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol odour</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 56 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-18 °C</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Highly flammable liquid and vapor.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
10.3. **Possibility of hazardous reactions**
Not established.

10.4. **Conditions to avoid**
Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. **Incompatible materials**
Strong acids. Strong bases.

10.6. **Hazardous decomposition products**

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

| Acute toxicity | Not classified |
| Acetone, ACS Grade (67-64-1) | |
| LD50 oral rat | 5800 mg/kg |
| LD50 dermal rabbit | > 20000 mg/kg |
| LC50 inhalation rat (ppm) | > 16000 ppm/4h |
| ATE US (oral) | 5800 mg/kg body weight |

| 3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid (2530-85-0) | |
| LD50 oral rat | > 2000 mg/kg body weight (Rat; Literature study) |
| LD50 dermal rat | > 2000 mg/kg body weight (Rat; Literature study) |

| Ethanol/Denatured 190 PROOF (64-17-5) | |
| LD50 oral rat | 7060 mg/kg |
| LD50 dermal rat | N/A |
| LD50 dermal rabbit | N/A |
| LC50 inhalation rat (ppm) | 20000 ppm |
| ATE US (oral) | 7060 mg/kg body weight |

| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

11.2. **Carcinogenicity**

| Acetone, ACS Grade (67-64-1) | |
| IARC group | 4 - Probably not carcinogenic to humans |

| Ethanol/Denatured 190 PROOF (64-17-5) | |
| IARC group | 4 - Probably not carcinogenic to humans |

| Reproductive toxicity | Not classified |
| Specific target organ toxicity – single exposure | May cause respiratory irritation. |

11.3. **Specific target organ toxicity – single exposure**

| Acetone, ACS Grade (67-64-1) | |
| LOAEL (oral,rat) | N/A mg/kg body weight |
| LOAEL (dermal,rat/rabbit) | N/A mg/kg body weight |
| LOAEC (inhalation,rat,gas) | N/A ppmV/4h |
| LOAEC (inhalation,rat,vapour) | N/A mg/l/4h |
| LOAEC (inhalation,rat,dust/mist/fume) | N/A mg/l/4h |

| Ethanol/Denatured 190 PROOF (64-17-5) | |
| LOAEL (oral,rat) | N/A mg/kg body weight |
| LOAEL (dermal,rat/rabbit) | N/A mg/kg body weight |
| LOAEC (inhalation,rat,gas) | N/A ppmV/4h |
| LOAEC (inhalation,rat,vapour) | N/A mg/l/4h |
| LOAEC (inhalation,rat,dust/mist/fume) | N/A mg/l/4h |

| Specific target organ toxicity – repeated exposure | Not classified |
## Acetone, ACS Grade (67-64-1)

<table>
<thead>
<tr>
<th>LOAEL (oral, rat, 90 days)</th>
<th>N/A mg/kg bodyweight/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (dermal, rat/rabbit, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas, 90 days)</td>
<td>N/A ppmV/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
</tbody>
</table>

## Ethanol/Denatured 190 PROOF (64-17-5)

<table>
<thead>
<tr>
<th>LOAEL (oral, rat, 90 days)</th>
<th>N/A mg/kg bodyweight/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (dermal, rat/rabbit, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas, 90 days)</td>
<td>N/A ppmV/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
</tbody>
</table>

### Aspiration hazard
Not classified

### Potential Adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.
- May cause an allergic skin reaction. May cause respiratory irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

#### Acetone, ACS Grade (67-64-1)

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>4740 - 6330 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 2</td>
<td>8300 mg/l</td>
</tr>
</tbody>
</table>

**3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid (2530-85-0)**

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>175 mg/l (LC50; 96 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 100 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 100 mg/l (LC50; EU Method C.1; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>&gt;= 100 mg/l (NOEC; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>&gt; 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

**Ethanol/Denatured 190 PROOF (64-17-5)**

| LC50 fish 1 | 14000 mg/l |

#### 12.2. Persistence and degradability

**Porcelain Primer**

Persistence and degradability: Not established.

**3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid (2530-85-0)**

Persistence and degradability: Readily biodegradable in water.

#### 12.3. Bioaccumulative potential

**Porcelain Primer**

Bioaccumulative potential: Not established.

**3-(Trimethoxysilyl)propyl-2-Methyl-2-Propenoic Acid (2530-85-0)**

Log Pow: 0.75 (Calculated)

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects
Porcelain Primer
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Effect on the global warming: No known effects from this product.

GWPmix comment: No known effects from this product.

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.

Additional information: Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Transport document description: UN1170 Ethyl alcohol solutions, 3, III
UN-No.(DOT): UN1170
Proper Shipping Name (DOT): Ethyl alcohol solutions
Class (DOT): 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT): III - Minor Danger
Hazard labels (DOT): 3 - Flammable liquid

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.

DOT Packaging Exceptions (49 CFR 173.xxx): 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 220 L
DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number: 127
Other information: No supplementary information available.
Porcelain Primer
Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TDG

Transport by sea
Not regulated

Air transport
Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations
No additional information available

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations
No additional information available

SECTION 16: Other information

Revision date : 01/12/2018
Other information : None.

Full text of H-phrases:

| H225 | Highly flammable liquid and vapor |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.