SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: Liquid Hardener
Product Numbers: 100602, 100603, 101605
Product Use: Polymerization initiator

Company
ITW Evercoat
a Division of Illinois Tool Works Inc.
6600 Cornell Road
Cincinnati, Ohio USA
Phone: 513-489-7600

Emergency Telephone Numbers:
CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

Packaged By:
Rocket Plastics Co.
P.O. Box 429514
Montgomery, Ohio USA 45242

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone Peroxide</td>
<td>1338-23-4</td>
<td>215-661-2</td>
<td>30 – 35</td>
</tr>
<tr>
<td>Dimethyl Phthalate</td>
<td>131-11-3</td>
<td>205-011-6</td>
<td>35 – 60</td>
</tr>
<tr>
<td>Phlegmatizer</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>5 – 30</td>
</tr>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>0 – 2</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>1</td>
</tr>
</tbody>
</table>

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

***EMERGENCY OVERVIEW***
DANGER! ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.

Potential Health Effects

Acute Effects (Short Term):
Eye: Contact with liquid or vapor may result in burns and possibly permanent damage. Symptoms may include burning, redness, tearing, and blurred vision.
Skin: May cause severe skin irritation with blistering. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.
Swallowing: Ingestion of this material may cause severe gastrointestinal irritation, or burns of the mouth, throat, esophagus and stomach, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may cause severe lung injury.

Inhalation: Excessive inhalation of vapors may cause severe nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Chronic Effects of Overexposure (Long Term):
Product: Prolonged and/or repeated inhalation is expected to be severely irritating to the respiratory system.
Methyl Ethyl Ketone: Animal tests show that this substance possibly causes toxic effects upon human reproduction.

Cancer Information: This product does not contain any substance, which is listed as a carcinogen by NTP, IARC or OSHA.

Other Health Effects: 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.

Primary Route(s) of Entry: Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

SECTION 4. FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention. DO NOT let victim rub eyes. Do not attempt to use any neutralization chemicals.
Skin: Immediately remove contaminated clothing. Wash exposed area with soap and water. Seek medical attention. Launder clothing before reuse.
Swallowing: Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended.
Inhalation: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: >200 °F (93 °C)
Explosive Limit: Lower: Not Established Upper: Not Established
Autoignition Temperature: Not Determined
OSHA Flammability Class: Combustible Liquid – Class IIIA
Hazardous Products of Combustion: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone and various hydrocarbons.
Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.
Extinguishing Media: Regular foam, carbon dioxide, dry chemical.
Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 3, Flammability - 2, Reactivity - 2

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe vapors or spray mist. Do not take internally. Close container after each use. Keep out of reach of children.

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 80°F (27°C). To prevent possible self-accelerating decomposition, temperatures in the storage facility must not exceed 100°F (38°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are recommended.

Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
Respiratory Protection: Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS Number</th>
<th>OSHA PEL/TWA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>1 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Dimethyl Phthalate</td>
<td>131-11-3</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone Peroxide</td>
<td>1338-23-4</td>
<td>N/E</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL C</td>
</tr>
</tbody>
</table>

N/E-Not Established  C-Ceiling

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Boiling Point:</th>
<th>Not Established</th>
<th>Vapor Density:</th>
<th>&gt;1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity:</td>
<td>1.1</td>
<td>Percent Volatiles by weight:</td>
<td>Not Available</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Slower than ethyl ether.</td>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not Established</td>
<td>pH:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
<td>Solubility:</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not Established</td>
<td>Appearance:</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Octanol/Water Partition Coefficient:</td>
<td>Unknown</td>
<td>VOC (as packaged-less exempts and water):</td>
<td>0.326 lbs/gal or 39 g/L</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to temperatures above 100°F (38°C).

**Hazardous Decomposition:** May form toxic and corrosive gases: carbon dioxide, carbon monoxide, oxygen, ethane, methane, and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.
Incompatibility: Avoid contact in uncontrolled conditions with: organic materials, inorganic acids, strong oxidizing agents, accelerators, reducing materials and strong bases.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>LD$_{50}$ Oral-Rat</th>
<th>LC$_{50}$ Inhalation-Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone Peroxide</td>
<td>1338-23-4</td>
<td>484 mg/kg</td>
<td>200 ppm/4hr</td>
</tr>
<tr>
<td>Dimethyl Phthalate</td>
<td>131-11-3</td>
<td>6800 mg/kg</td>
<td>Cat 9300 mg/m$^3$/6.5 hr</td>
</tr>
<tr>
<td>Proprietary Phlegmatizer</td>
<td>proprietary</td>
<td>&gt;3200 mg/kg</td>
<td>Human 50 mg/kg eye, nose, and pulmonary effects</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>2,737 mg/kg</td>
<td>23,500 mg/m$^3$/8 hr</td>
</tr>
</tbody>
</table>

Carcinogenicity: See Cancer Information, Section 3.
Mutagenicity: No significant evidence found.
Teratogenicity: Development inhalation toxicity studies with methyl ethyl ketone in rats and mice resulted in fetal toxicity at maternally toxic doses.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Methyl Ethyl Ketone Peroxide EC (Guppy), 44.2 mg/L/96 hr; EC$_{50}$ (algae) 42,700 µg/L/96 hr.

SECTION 13. DISPOSAL CONSIDERATION

RCRA Hazardous Waste: This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status
TSCA (USA) The intentional ingredients of this product are listed.
CERCLA RQ - 40 CFR 302.4(a)
Component RQ (lbs.)
Methyl Ethyl Ketone Peroxide 10
Methyl Ethyl Ketone 5000
SARA Title III: Section 302 - Extremely Hazardous Substances None
SARA Title III: Section 313- Toxic Chemical List

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>0– 2</td>
</tr>
<tr>
<td>Dimethyl Phthalate</td>
<td>131-11-3</td>
<td>35 - 60</td>
</tr>
</tbody>
</table>

International Regulations

EINECS (Europe) The intentional ingredients of this product are listed.
DSL (Canada) The intentional ingredients of this product are listed.

WHMIS Classification

Health Hazard: C, D2A, E, F (Oxidizer, Toxic Effects, Corrosive, Dangerously Reactive Materials)
Physical Hazard: B3 (Combustible)

State and Local Regulations

California Proposition 65:
This product contains the following chemical(s) known to the state of California to cause cancer. NONE
This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

SECTION 16. OTHER INFORMATION

HMIS Rating: Health – 3, Flammability - 2, Reactivity - 2
Key: 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: DO NOT return unused material to the original container. DO NOT contaminate product with foreign materials, it may cause hazardous decomposition. Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.
SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Neutral Gel-Kote
Product Numbers: 105676
Product Use: Polyester Repair Paste

Company Emergency Telephone Numbers:

Fibre Glass-Evercoat CHEMTREC: 1-800-424-9300
a Division of Illinois Tool Works Inc. CANUTEC: 1-613-996-6666
6600 Cornell Road
Cincinnati, Ohio USA
Phone: 513-489-7600

Prepared By: Safety Department

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester Resin</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>50 – 55</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>202-851-5</td>
<td>40 – 45</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>231-545-4</td>
<td>1 – 5</td>
</tr>
</tbody>
</table>

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

***EMERGENCY OVERVIEW***
WARNING! FLAMMABLE LIQUID AND VAPOR.
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

Potential Health Effects

Acute Effects (Short Term):

Eye: Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Swallowing: Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).
**Chronic Effects of Overexposure (Long Term):**

**Styrene:** Excessive overexposure to styrene has been found to cause the following effects in humans and may aggravate pre-existing disorders of these organs; central nervous system effects, effects on hearing, mild effects on color vision and respiratory tract damage.

**Cancer Information:** The International Agency for Research on Cancer (IARC) has classified styrene as a group 2B carcinogen (possibly carcinogenic to humans). This classification is not based on evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B, and consideration of new data on styrene oxide (Group 2A). This material may contain trace amounts of chemicals considered to be carcinogenic by OSHA, (Benzene, IARC-Group 1).

**Other Health Effects:** 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.

**Primary Route(s) of Entry:** Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing:** Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

### SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** 91.4 °F (33 °C)
Explosive Limit:  Lower: 1.1%  Upper: 6.1%
Autoignition Temperature: 914.0 °F (490.0 °C)
OSHA Flammability Class: Flammable Liquid – Class IC

Hazardous Products of Combustion: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide and various hydrocarbons.

Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Extinguishing Media: Regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 2, Flammability - 3, Reactivity - 2

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe sanding dust, vapors or spray mist. Do not take internally. Close container after each use. Keep out of reach of children.

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are recommended.

Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protection: Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS Number</th>
<th>OSHA PEL/TWA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>100 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point:</td>
<td>293 °F/ 145 °C</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Heavier than air.</td>
</tr>
<tr>
<td>Specific Gravity / Density</td>
<td>1.11 / 9.25 lbs/gal</td>
</tr>
<tr>
<td>Percent Volatiles by weight:</td>
<td>40 - 50 %</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Slower than ethyl ether.</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Paste</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>-23.1°F/-30.6°C</td>
</tr>
<tr>
<td>pH:</td>
<td>Neutral</td>
</tr>
<tr>
<td>Odor:</td>
<td>Sharp, aromatic odor.</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>5.0 mmHg @ 68 °F / 20 °C</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Pink Paste</td>
</tr>
<tr>
<td>Octanol/Water Partition Coeff.:</td>
<td>Unknown</td>
</tr>
<tr>
<td>VOC (as packaged-less exempts and water):</td>
<td>3.67 lbs/gal or 440 g/L</td>
</tr>
<tr>
<td>VOC (as applied*- 2%by wt hardener- less exempts and water):</td>
<td>1.73 lbs/gal or 208 g/L</td>
</tr>
</tbody>
</table>
**Section 10. Stability and Reactivity**

**Hazardous Polymerization:** Product may undergo hazardous polymerization if exposed to extreme heat.

**Hazardous Decomposition:** May form: carbon dioxide, carbon monoxide, styrene oxide and various hydrocarbons.

**Chemical Stability:** Stable under normal handling conditions.

**Incompatibility:** Avoid contact in uncontrolled conditions with: oxygen, peroxides, strong acids and strong oxidizing agents.

**Section 11. Toxicological Information**

**Acute Toxicity Data:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>LD₅₀ Oral-Rat</th>
<th>LC₅₀ Inhalation-Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>5,000 mg/kg</td>
<td>24 g/m³/4H</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>3,160 mg/kg</td>
<td>N/E</td>
</tr>
</tbody>
</table>

**Carcinogenicity:** See Cancer Information, Section 3.

**Mutagenicity:** No significant evidence found.

**Teratogenicity:** No significant risk of birth defects or reproductive toxicity of styrene to humans.

**Section 12. Ecological Information**

**Ecotoxicity:** Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

**Section 13. Disposal Consideration**

**RCRA Hazardous Waste:** This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.
RCRA Hazard Class: This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status
TSCA (USA) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)
Component RQ (lbs.)
Styrene 1000

SARA Title III: Section 302- Extremely Hazardous Substances
None

SARA Title III: Section 313- Toxic Chemical List
Component CAS Number Percentage
Styrene 100-42-5 44.6%

EPA Hazardous Air Pollutants (HAPS) 40 CFR 63
Component CAS Number Percentage
Styrene 100-42-5 44.6%

International Regulations

EINECS (Europe) The intentional ingredients of this product are listed.

DSL (Canada) The intentional ingredients of this product are listed.

WHMIS Classification

Health Hazard: D2A, D2B (Other Toxic Effects)
Physical Hazard: B2 (Flammable)

State and Local Regulations

California Proposition 65:
This product contains the following chemical(s) known to the state of California to cause cancer. STYRENE OXIDE
Styrene, in the presence of air and high temperature or prolonged exposure of styrene/air mixture to sunlight, can react to form styrene oxide.

This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. NONE

SECTION 16. OTHER INFORMATION
HMIS Rating: Health – 2*, Flammability - 3, Reactivity - 2
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: This product must be mixed with Liquid Hardener (MEKP) prior to use. Please refer to the Material Safety Data Sheet (#100602) for catalyst before using.

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.
MATERIAL SAFETY DATA SHEET

Date Prepared: 2/14/05
Revision Date: 3/19/2007
White Gel-Kote
MSDS Number: 130017

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity
Product Name: White Gel-Kote
Product Numbers: 105673, 105675 and 105677
Product Use: Polyester Repair Paste

Company
Fibre Glass-Evercoat
a Division of Illinois Tool Works Inc.
6600 Cornell Road
Cincinnati, Ohio USA
Phone: 513-489-7600

Emergency Telephone Numbers:
CHEMTREC: 1-800-424-9300
CANUTEC: 1-613-996-6666

Prepared By: Safety Department

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester Resin</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>45 – 50</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>202-851-5</td>
<td>40 – 45</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>5 – 10</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>231-545-4</td>
<td>1 – 5</td>
</tr>
</tbody>
</table>

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 3. HAZARDS IDENTIFICATION

***EMERGENCY OVERVIEW***

WARNING! FLAMMABLE LIQUID AND VAPOR.
CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

Potential Health Effects

Acute Effects (Short Term):

Eye: Contact with liquid or vapor may result in irritation, redness, tearing, and blurred vision.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Swallowing: Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Aspiration of this material into the lungs due to vomiting may produce chemical pneumonitis which can be fatal.

Inhalation: Excessive inhalation of vapors may cause nasal and respiratory irritation, acute nervous system depression, fatigue, weakness, nausea, headache, and dizziness. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Chronic Effects of Overexposure (Long Term):
Styrene: Excessive overexposure to styrene has been found to cause the following effects in humans and may aggravate pre-existing disorders of these organs; central nervous system effects, effects on hearing, mild effects on color vision and respiratory tract damage.

Cancer Information: The International Agency for Research on Cancer (IARC) has classified styrene as a group 2B carcinogen (possibly carcinogenic to humans). This classification is not based on evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B, and consideration of new data on styrene oxide (Group 2A). This material may contain trace amounts of chemicals considered to be carcinogenic by OSHA, (Benzene, IARC-Group 1). Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals.

Other Health Effects: 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.

Primary Route(s) of Entry: Inhalation, Skin contact, Eye contact, Ingestion, Skin absorption.

SECTION 4. FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing: Consult a physician or poison control center immediately. DO NOT INDUCE VOMITING. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. If possible, do not leave individual unattended. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

Inhalation: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, oxygen may be beneficial if administered by trained personnel.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: 91.4 ºF (33 ºC)
Explosive Limit: Lower: 1.1% Upper: 6.1%
MATERIAL SAFETY DATA SHEET

White Gel-Kote

MSDS Number: 130017

Autoignition Temperature: 914.0 °F (490.0 °C)

OSHA Flammability Class: Flammable Liquid – Class IC

Hazardous Products of Combustion: May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide and various hydrocarbons.

Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Extinguishing Media: Regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus NIOSH approved with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

NFPA Rating: Health - 2, Flammability - 3, Reactivity - 2

SECTION 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate the area. Wear proper protective equipment (Section 8). Avoid breathing vapors. Collect with an inert absorbant and dispose of properly.

SECTION 7. HANDLING AND STORAGE

Handling: All hazard precautions given in the data sheet must be observed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation. Do not breathe sanding dust, vapors or spray mist. Do not take internally. Close container after each use. Keep out of reach of children.

Storage: Store material in a cool, well-ventilated area. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not use or store near heat, sparks, or open flame. Keep container tightly closed. Avoid contact with incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are recommended.

Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. A barrier cream may be used for additional skin protection. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
**MATERIAL SAFETY DATA SHEET**

**Respiratory Protection:** Use a NIOSH approved respirator designed to remove particulate matter and organic solvent vapors.

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below acceptable limits. Explosion-proof ventilation system is acceptable.

**Exposure Guidelines:**

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS Number</th>
<th>OSHA PEL/TWA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>100 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>293 °F/ 145 °C</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>5.0 mmHg @ 68 °F / 20 °C</td>
</tr>
<tr>
<td>Specific Gravity / Density</td>
<td>1.11 / 9.25 lbs/gal</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than ethyl ether</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-23.1°F / -30.6°C</td>
</tr>
<tr>
<td>Odor</td>
<td>Sharp, aromatic odor</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Mechanical State</td>
<td>Paste</td>
</tr>
<tr>
<td>Octanol/Water Partition</td>
<td>Unknown</td>
</tr>
<tr>
<td>VOC (as packaged- less exempts and water):</td>
<td>3.64 lbs/gal or 437 g/L</td>
</tr>
<tr>
<td>VOC (as applied*- 2% by wt hardener- less exempts and water):</td>
<td>1.52 lbs/gal or 182 g/L</td>
</tr>
<tr>
<td>Percent Solids by weight – as packaged:</td>
<td>60.6 %</td>
</tr>
<tr>
<td>Percent Solids by weight – as applied* - 2% by wt hardener:</td>
<td>83.6 %</td>
</tr>
<tr>
<td>VHAP Content by weight – as</td>
<td>41.5 %</td>
</tr>
<tr>
<td>VHAP Content by weight – as applied* - 2</td>
<td>17.3 %</td>
</tr>
</tbody>
</table>

*NOTE:* The applied VOC and VHAP Content is lower than the packaged VOC and VHAP Content due to a reactive diluent (styrene) that reacts and becomes non-volatile (bonded in the solid material) when the hardener is added.

**SECTION 10. STABILITY AND REACTIVITY**
Hazardous Polymerization: Product may undergo hazardous polymerization if exposed to extreme heat.

Hazardous Decomposition: May form: carbon dioxide, carbon monoxide, styrene oxide and various hydrocarbons.

Chemical Stability: Stable under normal handling conditions.

Incompatibility: Avoid contact in uncontrolled conditions with: oxygen, peroxides, strong acids and strong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>LD$_{50}$ Oral-Rat</th>
<th>LC$_{50}$ Inhalation-Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>5,000 mg/kg</td>
<td>24 g/m$^3$/4H</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112945-52-5</td>
<td>3,160 mg/kg</td>
<td>N/E</td>
</tr>
</tbody>
</table>

Carcinogenicity: See Cancer Information, Section 3.

Mutagenicity: No significant evidence found.

Teratogenicity: No significant risk of birth defects or reproductive toxicity of styrene to humans.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Styrene is toxic to aquatic organisms and should not be released to sewage, draining systems or any body of water exceeding concentrations of approved limits under applicable regulations and permits.

SECTION 13. DISPOSAL CONSIDERATION

RCRA Hazardous Waste: This material as supplied, if discarded, would be regulated as a hazardous waste under RCRA (40 CFR 261). Dispose of in accordance with applicable federal, state, and local regulations.

RCRA Hazard Class: This material would be regulated as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

SECTION 14. TRANSPORT INFORMATION

DOT Description: The DOT Classification for shipping is dependant on quantity, type of packaging (a kit may include other components), or method of shipment.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations
TSCA (Toxic Substances Control Act) Status
MATERIAL SAFETY DATA SHEET

White Gel-Kote  
MSDS Number: 130017

White Gel-Kote

Date Prepared: 2/14/05
Revision Date: 3/19/2007
Page: 6 of 6

TSCA (USA) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)
Component RQ (lbs.)
Styrene 1000

SARA Title III: Section 302 - Extremely Hazardous Substances
None

SARA Title III: Section 313 - Toxic Chemical List
Component CAS Number Percentage
Styrene 100-42-5 40 - 45%

International Regulations
EINECS (Europe) The intentional ingredients of this product are listed.
DSL (Canada) The intentional ingredients of this product are listed.

WHMIS Classification
Health Hazard: D2A, D2B (Other Toxic Effects)
Physical Hazard: B2 (Flammable)

State and Local Regulations
California Proposition 65:
This product contains the following chemical(s) known to the state of California to cause cancer. BENZENE, STYRENE OXIDE
Styrene, in the presence of air and high temperature or prolonged exposure of styrene/air mixture to sunlight, can react to form styrene oxide.
This product contains the following chemical(s) known to the state of California to cause birth defects or reproductive harm. BENZENE

SECTION 16. OTHER INFORMATION

HMIS Rating: Health – 2*, Flammability - 3, Reactivity - 2
Key- 0=Least, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme, *=Chronic Effects

Other Precautions for Use: This product must be mixed with Liquid Hardener (MEKP) prior to use. Please refer to the Material Safety Data Sheet (#100602) for catalyst before using.

Additional Information may be obtained by calling the Evercoat MSDS Hotline at 1-800-729-7600.

NOTICE: The information accumulated herein is believed to be correct as of the date issued from sources, which are believed to be accurate and reliable. Since it is not possible to anticipate all circumstances of use, recipients are advised to confirm, in advance of need, that the information is current, applicable and suitable to their circumstances.