

# MATERIAL SAFETY DATA SHEET

## Prelude Primer

### SECTION I - IDENTIFICATION

Company Name: Danville Materials  
Address: 3420 Fostoria Way A-200  
San Ramon, CA. 94583  
Phone: (925) 973-0710  
Fax: (925) 973-0764  
Prepared: December 10, 2010

### SECTION II - INGREDIENTS OF MIXTURES

#### Hazardous Components

Item (CAS# or UM#)	OSHA PEL	ACGIH TLV	%
Ethyl Alcohol CAS #: 64-17-5	1000ppm	1000ppm	15-25

Ethanol UN#: 1170

#### Other Components

Alkyl Methacrylate Resins	N/A	N/A	35-45
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### SECTION III - PHYSICAL DATA

Vapor Pressure mm HG: ND  
Solubility in H<sub>2</sub>O: Miscible (for uncured material)  
Appearance and Odor: Pale yellow liquid with fruity odor  
Specific Gravity (H<sub>2</sub>O=1): 1.00

### SECTION IV - FIRE AND EXPLOSION

Flash Point: 64 deg. F (18 degrees C) - for ethanol  
Extinguishing Media: Carbon Dioxide, foam, dry chemical  
Special Fire-Fighting Procedures: None  
Flammable Limits: N/D  
Unusual Fire and Explosion Hazards: None

### SECTION V - REACTIVITY DATA

Stability: Unstable ( ) Stable (X)  
Conditions to Avoid: Heat, sparks, open flames  
Incompatibility: Strong oxidizing agents  
Hazardous Decomposition Products: Carbon Monoxide  
Hazardous Polymerization: May occur ( ) Will not occur (X)  
None

### SECTION VI - HEALTH HAZARDS

OSHA Permissible Exposure Limits: None  
Other Exposure Limit Used: None  
ACGIH Threshold Exposure Limit: None  
Chronic, Other: None  
Acute Overexposure: Irritation to eyes and skin may occur with uncured resins. May cause skin sensitivity in select individuals  
Medical Conditions Generally Aggravated by Exposure: None known  
Hygienic Practices: None  
Primary Routes(s) of Exposure: Eyes, Skin, Inhalation, or Ingestion

### SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

Signs of Exposure: Severe skin or eye irritation, redness or burning sensation  
Skin: Wash off affected area with soap and water. Flush for 15 minutes  
Ingestion or Inhalation: Seek immediate medical advice, carry container with label  
Eyes: Rinse immediately with plenty of water and seek medical advice

### SECTION VIII - SAFE HANDLING & USE PRECAUTIONS

Spill Management: Use absorbent to collect the material, wash contaminated surfaces with soap and water.  
Waste Disposal Methods: This material contains hazardous constituents. Dispose of safely in accordance with local, state, and federal regulations. Avoid temperatures in excess of 40 deg. C.

### SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: None  
Eye Protection: Safety goggles  
Gloves: Surgical rubber/PVC gloves  
Other Clothing & Equipment: Face Mask  
Ventilation: None required, local exhaust recommended

### SECTION X - TRANSPORTATION INFORMATION

Regulated: DOT, IATA, IMO  
Proper Shipping Name: Ethanol Solution  
Hazard Class: 3 (serious hazard)  
Identification Number: UN 1170  
Packing Group: II  
Label: Flammable liquid  
Note See 49CFR 173.4

## Prelude Adhesive

### SECTION I - IDENTIFICATION

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Prepared: December 10, 2010

### SECTION II - INGREDIENTS OF MIXTURES

#### Hazardous Components

Item (CAS# or UM#)	OSHA PEL	ACGIH TLV	%
Ethyl Alcohol CAS #: 64-17-5	1000ppm	1000ppm	25-30

Ethanol UN#: 1170

#### Other Components

Alkyl Methacrylate Resins	N/A	N/A	50-60
Barium Aluminoborosilicate Glass	N/A	N/A	10-15
Fumed Silica (Silicon Dioxide)	N/A	N/A	5-10
Sodium Hexafluorosilicate	N/A	N/A	0.5-1

### SECTION III - PHYSICAL DATA

Vapor Pressure mm HG: ND  
Evaporation Rate (Ether=1): ND  
Solubility in H<sub>2</sub>O: Partial (for uncured material)  
Appearance and Odor: Pale yellow liquid with fruity odor  
Specific Gravity (H<sub>2</sub>O=1): 1.2

### SECTION IV - FIRE AND EXPLOSION

Flash Point: 64 deg. F (18 degrees C) - for ethanol  
Extinguishing Media: Carbon Dioxide, foam, dry chemical  
Special Fire-Fighting Procedures: None  
Flammable Limits: N/D  
Unusual Fire and Explosion Hazards: None

### SECTION V - REACTIVITY DATA

Stability: Unstable ( ) Stable (X)  
Conditions to Avoid: Heat, sparks, open flames  
Incompatibility: Strong oxidizing agents  
Hazardous Decomposition Products: Carbon Monoxide  
Hazardous Polymerization: May occur ( ) Will not occur (X) None

**SECTION VI - HEALTH HAZARDS**

OSHA Permissible Exposure Limits: None  
 Other Exposure Limit Used: None  
 ACGIH Threshold Exposure Limit: None  
 Chronic, Other: None  
 Acute Overexposure: Irritation to eyes and skin may occur with uncured resins. May cause skin sensitivity in select individuals  
 Medical Conditions Generally Aggravated by Exposure: None known  
 Hygienic Practices: None  
 Primary Routs(s) of Exposure: Eyes, Skin, Inhalation, or Ingestion

**SECTION VII - EMERGENCY AND FIRST AID PROCEDURES**

Signs of Exposure: Severe skin or eye irritation, redness or burning sensation  
 Skin: Wash off affected area with soap and water. Flush for 15 minutes  
 Ingestion or Inhalation: Seek immediate medical advice, carry container with label  
 Eyes: Rinse immediately with plenty of water and seek medical advice

**SECTION VIII - SAFE HANDLING & USE PRECAUTIONS**

Spill Management: Use absorbent to collect the material, wash contaminated surfaces with soap and water.  
 Waste Disposal Methods: This material contains hazardous constituents. Dispose of safely in accordance with local, state, and federal regulations. Avoid temperatures in excess of 40 deg. C.

**SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory: None  
 Eye Protection: Safety goggles  
 Gloves: Surgical rubber/PVC gloves  
 Other Clothing & Equipment: Face Mask  
 Ventilation: None required, local exhaust recommended

**SECTION X - TRANSPORTATION INFORMATION**

Regulated: DOT, IATA, IMO  
 Proper Shipping Name: Ethanol Solution  
 Hazard Class: 3 (serious hazard)  
 Identification Number: UN 1170  
 Packing Group; II  
 Label: Flammable liquid  
 Note See 49CFR 173.4

**Prelude Dual/Self-Cure Link****SECTION I - IDENTIFICATION**

Company Name: Danville Materials  
 Address: 3420 Fostoria Way A-200  
 San Ramon, CA. 94583  
 Phone: (925) 973-0710  
 Fax: (925) 973-0764  
 Prepared: December 10, 2010

**SECTION II - INGREDIENTS OF MIXTURES**

Hazarous Components

Item (CAS# or UM#)	OSHA PEL	ACGIH TLV	%
Ethyl Alcohol CAS #: 64-17-5	1000ppm	1000ppm	90-98
Ethanol UN#: 1170			
<u>Other Components</u>			
Alkyl Methacrylate Resins	N/A	N/A	
2-8			

**SECTION III - PHYSICAL DATA**

Vapor Pressure: 44.6 mm HG @68 degrees F  
 Evaporation Rate (Ether=1): N/D  
 Solubility in H<sub>2</sub>O: Complete  
 Appearance and Odor: Colorless liquid with alcoholic odor.  
 Specific Gravity (H<sub>2</sub>O=1): 0.80

**SECTION IV - FIRE AND EXPLOSION**

Flash Point: 56 deg. F ASTM D-56 (Tag Closed Cup)  
 Extinguishing Media: Carbon Dioxide, foam, dry chemical, or water  
 Special Fire-Fighting Procedures: None  
 Flammable Limits in air, % by volume: LOWER: 3.3 UPPER: 19  
 Unusual Fire and Explosion Hazards: None

**SECTION V - REACTIVITY DATA**

Stability: Unstable ( ) Stable (X)  
 Conditions to Avoid: Heat, sparks, open flames  
 Incompatibility: Strong oxidizing agents  
 Hazardous Decomposition Products: Carbon Monoxide  
 Hazardous Polymerization: May occur ( ) Will not occur (X)  
 None

**SECTION VI - HEALTH HAZARDS**

Primary Routs(s) of Exposure: Eyes, Skin, Inhalation, or Ingestion  
 Inhalation: Exposure above limits may cause headache, drowsiness and lassitude, loss of appetite, and inability to concentrate.

OSHA Permissible Exposure Limits: 1000 ppm  
 ACGIH Threshold Exposure Limit: 1000 ppm

Ingestion (not an expected route of exposure): Can cause depression of central nervous system, nausea, vomiting, and diarrhea.  
 Acute Overexposure: Irritation to eyes and skin may occur. May cause skin sensitivity in select individuals.

**SECTION VII - EMERGENCY AND FIRST AID PROCEDURES**

Signs of Exposure: Severe skin or eye irritation, redness or burning sensation  
 Skin: Wash off affected area with soap and water. Flush for 15 minutes  
 Ingestion or Inhalation: Seek immediate medical advice, carry container with label  
 Eyes: Rinse immediately with plenty of water and seek medical advice

**SECTION VIII - SAFE HANDLING & USE PRECAUTIONS**

Spill Management: Use absorbent to collect the material, wash contaminated surfaces with soap and water.  
 Waste Disposal Methods: This material contains hazardous constituents. Dispose of safely in accordance with local, state, and federal regulations. Avoid temperatures in excess of 40 deg. C.

**SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory: None  
 Eye Protection: Safety goggles meeting ANS Std. Z87.1  
 Gloves: Surgical rubber/PVC gloves  
 Other Clothing & Equipment: None  
 Ventilation: None required, local exhaust recommended

**SECTION X - TRANSPORTATION INFORMATION**

Regulated: DOT, IATA, IMO  
 Proper Shipping Name: Ethanol Solution  
 Hazard Class: 3 (flammable liquid)  
 Identification Number: UN 1170  
 Packing Group; II  
 Emergency Response Guide No. 127  
 Label: Flammable liquid  
 Note See 49CFR 173.4