# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

072343416

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070619650 070841916

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070861211

## **Material Safety Data Sheet**

#### Prelude Dual/Self-Cure Link

**SECT ION I: IDENTIFICATION** 

Company Name: Danville Materials

3420 Fostoria Way Suite A-200

San Ramon, CA 94583

Phone (800) 827-7940 Fax: (925) 973-0764 Prepared: January 27, 2012

**SECT ION II: HAZARD(S) IDENTIFICATION** 

OSHA Permissible Exposure Limits: None Other Exposure Limit Used: None

ACGIH Threshold Exposure Limit: None

Chronic, Other: None

SECT ION II: COMPOSITION/INFORMATION ON INGREDIENTS Hazardous Component % by weight

ACGI-Item CAS# **OSHA** % PEL HTLV EthylAlcohol 64-17-5 1000pm 1000pm 15-25 Ethanol N/A N/A N/A Trace N/A Alkyl Methacrylate N/A N/A N/A

Resins

**SECT ION IV: FIRST-AID MEASURES** 

Primary Routes of Exposure: Skin, ingestion

Signs of Exposure: Severe skin or eye irritation, redness or burning

sensation.

Medical Conditions Generally Aggravated by Exposure: Allergies to

methacrylates.

First Aid Procedures: For Skin - Wash off infected area with soap and

water. For

Ingestion -Can cause depression of central nervous system, nausea,

vomiting and diarrhea.

**SECT ION V: FIRE-FIGHTING MEASURES** 

Flash Point: 56OF ASTM D-56 (Tag closed cup)

Extinguishing Media: Carbon dioxide, foam, dry chemical

Special Fire Fighting Procedures: None

Flammable limits: In air, % by volume: Lower 3.3 Upper 19

Unusual Fire and Explosion Hazards: None

SECT ION VI : ACCIDENTAL RELEASE MEASURES

None

**SECT ION VI: HANDLING AND STORAGE** 

Spill Management: Use absorbent to collect the material. Wash

contaminated surfaces with Soap and water

SECT ION VI: EXPOSURE CONTROLS/PERSONAL PROTECT ION

Respiratory: None

Eye Protection: Safety goggles

Gloves: Surgical, rubber/PVC gloves
Other Clothing and Equipment: Face Mask

Ventilation: None required, local exhaust recommended

SECT ION IX: PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 44.6 mm HG @ 68 °F

Vapor Density: ND

Evaporation Rate: ND Solubility in Water: Complete

Boiling Point: ND Specific Gravity: >1

Appearance and Odor: Colorless liquid with alcoholic odor

**SECT ION X: STABILITY AND REACTIVITY** 

Stable (x) Unstable ()

Conditions to Avoid: Heat in excess of 40°C, direct sunlight or intense

light.

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: carbon dioxide Hazardous Polymerization: May occur () Will not occur (x)

SECT ION XI: TOXICOLOGICAL INFORMATION

Carcinogens: None known.

**SECT ION XII: ECOLOGICAL INFORMATION** 

This material contains hazardous components. Allow materials to

cure prior to disposal.

**SECT ION XII: DISPOSAL CONSIDERATIONS** 

Dispose of safely in accordance with local, state, and federal

regulations.

**SECT ION XIV: TRANSPORT INFORMATION** 

Regulated: DOT, IATA, IMO

Proper Shipping Name: Ethanol Solution

Hazard Class: 3

Identification #: UN 1170 Packing Group: II Label: Flammable Liquid Note see 49CFR 173.4

**SECT ION XV: REGULATORY INFORMATION** 

510k#: K040952

**SECT ION XVI: OTHER INFORMATION** 

None

The data and information given in this msds are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.06.2015 Page 1 of 7

#### **Prelude**

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Prelude

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: 90989

Recommended uses of the product and restrictions on use:

Manufacturer Details:

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Supplier Details:**

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Emergency telephone number:**

ChemTrec Inc 1-800-424-9300,703-527-3887 (CHEMTREC)

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



#### **Irritant**

Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1



#### **Flammable**

Flammable liquids, category 2

Skin Irritation - Category 2.

Eye Irritation - Category 2.

Skin Sensitiser - Category 1.

Flammable Liquid - Category 2.

Signal word: Danger

### **Hazard statements:**

Highly flammable liquid and vapor. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

## **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Contaminated work clothing should not be allowed out of the workplace.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

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#### **Prelude**

Avoid breathing dust/fume/gas/mist/vapors/spray. If eye irritation persists get medical advice/attention. Eliminate all ignition sources if safe to do so.

IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use agents recommended in section 5 for extinction.

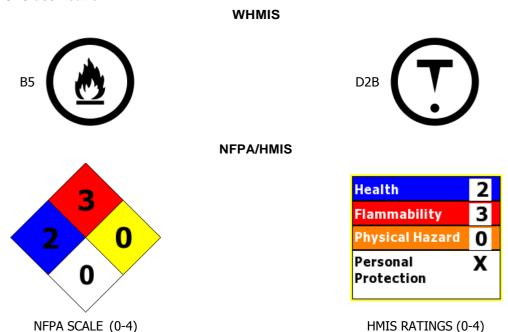
Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or a rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Store in a well ventilated place. Keep cool. Dispose of contents and container as instructed in Section 13.

#### Other Non-GHS Classification:



## SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 64-17-5	Ethyl alcohol	15-25 %
CAS N/A	Alkyl Methacrylate Resins	34-45 %
		Percentages are by weight

## **SECTION 4 : First aid measures**

## Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear. Vapors may cause drowsiness and dizziness.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. May cause allergic reaction on contact with the skin. Avoid contact of uncured resin with skin, especially in people known to be allergic to methacrylates.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, Created by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

discomfort, or vomiting persists. Never give anything by mouth to an unconscious person. Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

## Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath. Repeated exposure may cause skin dryness or cracking.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## SECTION 5 : Firefighting measures

### **Extinguishing media**

**Suitable extinguishing agents:** Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents:** None identified. Water spray or jet may prove ineffective and/or may cause fire to spread.

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Dangerous fire hazard when exposed to heat, sparks and open flames.

### Advice for firefighters:

**Protective equipment:** Wear protective eyeware, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus. Use spark-proof tools and explosion-proof equipment.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.

### SECTION 6 : Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

## Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal. Dam spill and collect with sand, silicagel or other absorbent non-flammable material and place in suitable waste containers. Ventilate area of leak or spill.

#### Reference to other sections:

None

# SECTION 7 : Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Take precautions against static discharge.

## Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Avoid storage near extreme heat, ignition sources or open flame. Do not store in heat in excess of 40°C, direct sunlight or intense light.

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#### **Prelude**

### SECTION 8 : Exposure controls/personal protection





**Control Parameters:** 64-17-5, Ethanol, ACGIH TLV: 1000 ppm STEL.

64-17-5, Ethanol, NIOSH: 3300 ppm IDLH (10% LEL).

64-17-5, Ethanol, OSHA PEL: 1000 ppm TWA; 1900 mg/m3 TWA.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

## **SECTION 9: Physical and chemical properties**

Appearance (physical state,color):	Pale pink liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Fruity	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	Not Determined
Melting/Freezing point:	Not Determined	Solubilities:	Miscible (for uncured material).
Boiling point/Boiling range:	Not Determined	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	18°C (64° F)	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Applicable	Decomposition temperature:	Not Determined

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

Flammability (solid,gaseous):	Highly flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

## SECTION 10 : Stability and reactivity

**Reactivity:** Nonreactive under normal conditions. **Chemical stability:** Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. - No

smoking. Heat in excess of 40°C, direct sunlight or intense light. **Incompatible materials:** Strong acids, bases, and oxidizing agents.

Hazardous decomposition products: Thermal decomposition or burning may produce carbon monoxide, carbon

dioxide, hydrogen, and irritating gases.

## **SECTION 11 : Toxicological information**

Acute Toxicity:				
Inhalation:	64-17-5	LC50 Rat 124.7 mg/L 4 h (Source: OECD_SIDS)		
Oral:	64-17-5	LD50 Rat 7060 mg/kg (Source: NLM_CIP)		
Chronic Toxicity	Chronic Toxicity: No additional information.			
Corrosion Irritation: No additional information.				
Sensitization:		No additional information.		
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive T	oxicity:	No additional information.		

## SECTION 12 : Ecological information

### **Ecotoxicity**

64-17-5: 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L

[static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]

**64-17-5**: 48 Hr LC50 Eisenia foetida: 0.1 - 1 mg/cm2 [filter paper]

Persistence and degradability: Not determined. Bioaccumulative potential: Not determined.

**Mobility in soil**: Not determined.

Other adverse effects: None identified.

# SECTION 13 : Disposal considerations

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#### **Prelude**

## Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14 : Transport information

### **UN-Number**

1170

## **UN proper shipping name**

**Ethanol Mixture** 

### Transport hazard class(es)



Class:

3 Flammable liquids

Packing group: II

Environmental hazard: None

Transport in bulk:

Special precautions for user: None

## SECTION 15 : Regulatory information

## **United States (USA)**

#### SARA Section 311/312 (Specific toxic chemical listings):

Acute, Fire

### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## RCRA (hazardous waste code):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

## Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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#### **Prelude**

#### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

#### SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### **GHS Full Text Phrases:**

None

## Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Prelude

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: 90989

Recommended uses of the product and restrictions on use:

**Manufacturer Details:** 

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Supplier Details:**

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Emergency telephone number:**

ChemTrec Inc 1-800-424-9300,703-527-3887 (CHEMTREC)

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



#### **Irritant**

Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1



#### **Flammable**

Flammable liquids, category 2

Skin Irritation - Category 2.

Eye Irritation - Category 2.

Skin Sensitiser - Category 1.

Flammable Liquid - Category 2.

Signal word: Danger

### **Hazard statements:**

Highly flammable liquid and vapor. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

## **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Contaminated work clothing should not be allowed out of the workplace.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

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#### **Prelude**

Avoid breathing dust/fume/gas/mist/vapors/spray. If eye irritation persists get medical advice/attention. Eliminate all ignition sources if safe to do so.

IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use agents recommended in section 5 for extinction.

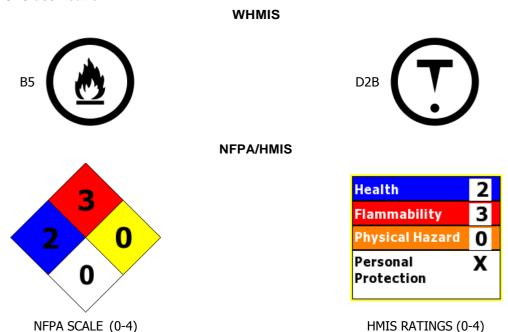
Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or a rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Store in a well ventilated place. Keep cool. Dispose of contents and container as instructed in Section 13.

#### Other Non-GHS Classification:



## SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 64-17-5	Ethyl alcohol	15-25 %
CAS N/A	Alkyl Methacrylate Resins	34-45 %
		Percentages are by weight

## **SECTION 4 : First aid measures**

## Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear. Vapors may cause drowsiness and dizziness.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. May cause allergic reaction on contact with the skin. Avoid contact of uncured resin with skin, especially in people known to be allergic to methacrylates.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, Created by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

discomfort, or vomiting persists. Never give anything by mouth to an unconscious person. Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

## Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath. Repeated exposure may cause skin dryness or cracking.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## SECTION 5 : Firefighting measures

### **Extinguishing media**

**Suitable extinguishing agents:** Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents:** None identified. Water spray or jet may prove ineffective and/or may cause fire to spread.

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Dangerous fire hazard when exposed to heat, sparks and open flames.

### Advice for firefighters:

**Protective equipment:** Wear protective eyeware, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus. Use spark-proof tools and explosion-proof equipment.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.

### SECTION 6 : Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

## Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal. Dam spill and collect with sand, silicagel or other absorbent non-flammable material and place in suitable waste containers. Ventilate area of leak or spill.

#### Reference to other sections:

None

# SECTION 7 : Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Take precautions against static discharge.

## Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Avoid storage near extreme heat, ignition sources or open flame. Do not store in heat in excess of 40°C, direct sunlight or intense light.

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#### **Prelude**

### SECTION 8 : Exposure controls/personal protection





**Control Parameters:** 64-17-5, Ethanol, ACGIH TLV: 1000 ppm STEL.

64-17-5, Ethanol, NIOSH: 3300 ppm IDLH (10% LEL).

64-17-5, Ethanol, OSHA PEL: 1000 ppm TWA; 1900 mg/m3 TWA.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

## **SECTION 9: Physical and chemical properties**

Appearance (physical state,color):	Pale pink liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Fruity	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	Not Determined
Melting/Freezing point:	Not Determined	Solubilities:	Miscible (for uncured material).
Boiling point/Boiling range:	Not Determined	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	18°C (64° F)	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Applicable	Decomposition temperature:	Not Determined

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

Flammability (solid,gaseous):	Highly flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

## SECTION 10 : Stability and reactivity

**Reactivity:** Nonreactive under normal conditions. **Chemical stability:** Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. - No

smoking. Heat in excess of 40°C, direct sunlight or intense light. **Incompatible materials:** Strong acids, bases, and oxidizing agents.

Hazardous decomposition products: Thermal decomposition or burning may produce carbon monoxide, carbon

dioxide, hydrogen, and irritating gases.

## **SECTION 11 : Toxicological information**

Acute Toxicity:				
Inhalation:	64-17-5	LC50 Rat 124.7 mg/L 4 h (Source: OECD_SIDS)		
Oral:	64-17-5	LD50 Rat 7060 mg/kg (Source: NLM_CIP)		
Chronic Toxicity	Chronic Toxicity: No additional information.			
Corrosion Irritation: No additional information.				
Sensitization:		No additional information.		
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive T	oxicity:	No additional information.		

## SECTION 12 : Ecological information

### **Ecotoxicity**

64-17-5: 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L

[static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]

**64-17-5**: 48 Hr LC50 Eisenia foetida: 0.1 - 1 mg/cm2 [filter paper]

Persistence and degradability: Not determined. Bioaccumulative potential: Not determined.

**Mobility in soil**: Not determined.

Other adverse effects: None identified.

# SECTION 13 : Disposal considerations

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#### **Prelude**

## Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14 : Transport information

### **UN-Number**

1170

## **UN proper shipping name**

**Ethanol Mixture** 

### Transport hazard class(es)



Class:

3 Flammable liquids

Packing group: II

Environmental hazard: None

Transport in bulk:

Special precautions for user: None

## SECTION 15 : Regulatory information

## **United States (USA)**

#### SARA Section 311/312 (Specific toxic chemical listings):

Acute, Fire

### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## RCRA (hazardous waste code):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

## Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude**

#### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

#### SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### **GHS Full Text Phrases:**

None

## Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

**Effective date**: 06.06.2015 **Last updated**: 06.17.2015

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.06.2015 Page 1 of 7

#### **Prelude**

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Prelude

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: 90989

Recommended uses of the product and restrictions on use:

Manufacturer Details:

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Supplier Details:**

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Emergency telephone number:**

ChemTrec Inc 1-800-424-9300,703-527-3887 (CHEMTREC)

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



#### **Irritant**

Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1



#### **Flammable**

Flammable liquids, category 2

Skin Irritation - Category 2.

Eye Irritation - Category 2.

Skin Sensitiser - Category 1.

Flammable Liquid - Category 2.

Signal word: Danger

## **Hazard statements:**

Highly flammable liquid and vapor. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

## **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Contaminated work clothing should not be allowed out of the workplace.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

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#### **Prelude**

Avoid breathing dust/fume/gas/mist/vapors/spray. If eye irritation persists get medical advice/attention. Eliminate all ignition sources if safe to do so.

IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use agents recommended in section 5 for extinction.

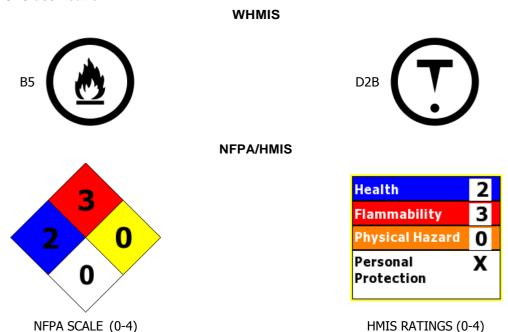
Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or a rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Store in a well ventilated place. Keep cool. Dispose of contents and container as instructed in Section 13.

#### Other Non-GHS Classification:



## SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 64-17-5	Ethyl alcohol	15-25 %
CAS N/A	Alkyl Methacrylate Resins	34-45 %
		Percentages are by weight

## **SECTION 4 : First aid measures**

## Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear. Vapors may cause drowsiness and dizziness.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. May cause allergic reaction on contact with the skin. Avoid contact of uncured resin with skin, especially in people known to be allergic to methacrylates.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, Created by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.06.2015 Page 3 of 7

#### **Prelude**

discomfort, or vomiting persists. Never give anything by mouth to an unconscious person. Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

## Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath. Repeated exposure may cause skin dryness or cracking.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## SECTION 5 : Firefighting measures

### **Extinguishing media**

**Suitable extinguishing agents:** Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents:** None identified. Water spray or jet may prove ineffective and/or may cause fire to spread.

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Dangerous fire hazard when exposed to heat, sparks and open flames.

### Advice for firefighters:

**Protective equipment:** Wear protective eyeware, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus. Use spark-proof tools and explosion-proof equipment.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.

### SECTION 6 : Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

## Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal. Dam spill and collect with sand, silicagel or other absorbent non-flammable material and place in suitable waste containers. Ventilate area of leak or spill.

#### Reference to other sections:

None

# SECTION 7 : Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Take precautions against static discharge.

## Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Avoid storage near extreme heat, ignition sources or open flame. Do not store in heat in excess of 40°C, direct sunlight or intense light.

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#### **Prelude**

### SECTION 8 : Exposure controls/personal protection





**Control Parameters:** 64-17-5, Ethanol, ACGIH TLV: 1000 ppm STEL.

64-17-5, Ethanol, NIOSH: 3300 ppm IDLH (10% LEL).

64-17-5, Ethanol, OSHA PEL: 1000 ppm TWA; 1900 mg/m3 TWA.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

## **SECTION 9: Physical and chemical properties**

Appearance (physical state,color):	Pale pink liquid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Fruity	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	Not Determined	Relative density:	Not Determined
Melting/Freezing point:	Not Determined	Solubilities:	Miscible (for uncured material).
Boiling point/Boiling range:	Not Determined	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	18°C (64° F)	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Applicable	Decomposition temperature:	Not Determined

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.06.2015 Page 5 of 7

#### **Prelude**

Flammability (solid,gaseous):	Highly flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

## SECTION 10 : Stability and reactivity

**Reactivity:** Nonreactive under normal conditions. **Chemical stability:** Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. - No

smoking. Heat in excess of 40°C, direct sunlight or intense light. **Incompatible materials:** Strong acids, bases, and oxidizing agents.

Hazardous decomposition products: Thermal decomposition or burning may produce carbon monoxide, carbon

dioxide, hydrogen, and irritating gases.

## **SECTION 11 : Toxicological information**

Acute Toxicity:				
Inhalation:	64-17-5	LC50 Rat 124.7 mg/L 4 h (Source: OECD_SIDS)		
Oral:	64-17-5	LD50 Rat 7060 mg/kg (Source: NLM_CIP)		
Chronic Toxicity	Chronic Toxicity: No additional information.			
Corrosion Irritation: No additional information.				
Sensitization:		No additional information.		
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive T	oxicity:	No additional information.		

## SECTION 12 : Ecological information

### **Ecotoxicity**

64-17-5: 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L

[static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]

**64-17-5**: 48 Hr LC50 Eisenia foetida: 0.1 - 1 mg/cm2 [filter paper]

Persistence and degradability: Not determined. Bioaccumulative potential: Not determined.

**Mobility in soil**: Not determined.

Other adverse effects: None identified.

## SECTION 13 : Disposal considerations

**Effective date**: 06.06.2015 Page 6 of 7

#### **Prelude**

## Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14 : Transport information

### **UN-Number**

1170

## **UN proper shipping name**

**Ethanol Mixture** 

### Transport hazard class(es)



Class:

3 Flammable liquids

Packing group: II

Environmental hazard: None

Transport in bulk:

Special precautions for user: None

## SECTION 15 : Regulatory information

## **United States (USA)**

#### SARA Section 311/312 (Specific toxic chemical listings):

Acute, Fire

### SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## RCRA (hazardous waste code):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

## Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.06.2015 Page 7 of 7

#### **Prelude**

#### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

#### SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### **GHS Full Text Phrases:**

None

## Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

**Effective date**: 06.06.2015 **Last updated**: 06.17.2015

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 06.08.2015 Page 1 of 7

#### **Prelude One**

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Prelude One

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: Prelude One

Recommended uses of the product and restrictions on use:

Manufacturer Details:

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## **Supplier Details:**

Danville Materials 3420 Fostoria Way Suite a200 San Ramon, CA 94583

## Emergency telephone number:

Chemtrec 1-800-424-9300

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:



#### **Irritant**

Skin irritation, category 2 Eye irritation, category 2A Skin sensitization, category 1



#### **Flammable**

Flammable liquids, category 2

Skin Irritation - Category 2.

Eye Irritation - Category 2.

Skin Sensitiser - Category 1.

Flammable Liquid - Category 2.

Signal word: Danger

## **Hazard statements:**

Highly flammable liquid and vapor. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

## **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Contaminated work clothing should not be allowed out of the workplace.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

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#### **Prelude One**

Avoid breathing dust/fume/gas/mist/vapors/spray. If eye irritation persists get medical advice/attention. Eliminate all ignition sources if safe to do so.

IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use agents recommended in section 5 for extinction.

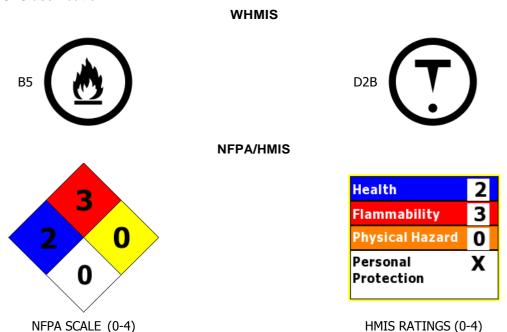
Specific treatment (see supplemental first aid instructions on this label).

If skin irritation or a rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Store in a well ventilated place. Keep cool. Dispose of contents and container as instructed in Section 13.

#### Other Non-GHS Classification:



#### **SECTION 3: Composition/information on ingredients**

Ingredients:				
CAS 64-17-5	Ethyl alcohol	30-50 %		
CAS 1565-94-2	Bisphenol A glycidyl methacrylate	20-40 %		
CAS 868-77-9	2-Hydroxyethyl methacrylate	10-20 %		
CAS N/A	Methacryloyloxyalkyl acid phosphate	1-5 %		
CAS N/A	Methacryloyloxyalkyl acid carboxylate	1-5 %		
Percentages are by weight				

#### SECTION 4 : First aid measures

#### **Description of first aid measures**

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear. Vapors may cause drowsiness and dizziness.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists. May cause allergic reaction on contact with the skin. Avoid contact of uncured resin with skin, especially in people known to be allergic to methacrylates.

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according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude One**

**After eye contact**: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person. Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

### Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath. Repeated exposure may cause skin dryness or cracking.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## SECTION 5 : Firefighting measures

### **Extinguishing media**

**Suitable extinguishing agents:** Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents:** None identified. Water spray or jet may prove ineffective and/or may cause fire to spread.

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Dangerous fire hazard when exposed to heat, sparks and open flames.

### Advice for firefighters:

**Protective equipment:** Wear protective eyeware, gloves, and clothing. Refer to Section 8. Use NIOSH-approved respiratory protection/breathing apparatus. Use spark-proof tools and explosion-proof equipment.

**Additional information (precautions):** Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

## **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

### Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal. Dam spill and collect with sand, silicagel or other absorbent non-flammable material and place in suitable waste containers. Ventilate area of leak or spill.

## Reference to other sections:

None

## SECTION 7 : Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances. Take precautions against static discharge.

## Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage.

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#### **Prelude One**

Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Avoid storage near extreme heat, ignition sources or open flame. Avoid high light intensity ambient light (>10000 lux).

## SECTION 8 : Exposure controls/personal protection





**Control Parameters:** 64-17-5, Ethanol, ACGIH TLV: 1000 ppm STEL.

64-17-5, Ethanol, NIOSH: 3300 ppm IDLH (10% LEL).

64-17-5, Ethanol, OSHA PEL: 1000 ppm TWA; 1900 mg/m3 TWA.

**Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

#### **SECTION 9: Physical and chemical properties**

Appearance (physical state,color):	Slightly yellow liquid	Explosion limit lower: Explosion limit upper:	3.5% 15.0%
Odor:	Ethanol-Like Vapor pressure:		Not Determined
Odor threshold:	Not Determined	Vapor density:	1.6g/cm3
pH-value:	2.8	Relative density:	0.8g/cm3
Melting/Freezing point:	-114.5°C	Solubilities:	Miscible in water.
Boiling point/Boiling range:	78°C	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	13°C	Auto/Self-ignition temperature:	425°C

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude One**

Evaporation rate:	Not Applicable	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Highly flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

## SECTION 10 : Stability and reactivity

**Reactivity:** Nonreactive under normal conditions. **Chemical stability:** Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. – No

smoking. Avoid high light intensity ambient light (>10000 lux). **Incompatible materials:** Strong acids, bases, and oxidizing agents.

Hazardous decomposition products: Thermal decomposition or burning may produce carbon monoxide, carbon

dioxide, hydrogen, and irritating gases.

## **SECTION 11: Toxicological information**

Acute Toxicity:				
Inhalation:	64-17-5	LC50 Rat 124.7 mg/L 4 h (Source: OECD_SIDS)		
Oral:	64-17-5	LD50 Rat 7060 mg/kg (Source: NLM_CIP)		
Chronic Toxicity: No additional information.				
Corrosion Irritation: No additional information.				
Sensitization:		No additional information.		
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive Toxicity:		No additional information.		

## SECTION 12 : Ecological information

### **Ecotoxicity**

**64-17-5**: 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L

[static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]

**64-17-5**: 48 Hr LC50 Eisenia foetida: 0.1 - 1 mg/cm2 [filter paper]

Persistence and degradability: Not determined. Bioaccumulative potential: Not determined.

**Mobility in soil**: Not determined.

Other adverse effects: None identified.

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#### **Prelude One**

## **SECTION 13: Disposal considerations**

#### Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## **SECTION 14: Transport information**

#### **UN-Number**

1170

#### **UN proper shipping name**

**Ethanol Mixture** 

## Transport hazard class(es)



Class:

3 Flammable liquids

Packing group: II

Environmental hazard: None

Transport in bulk:

Special precautions for user: None

#### **SECTION 15: Regulatory information**

## **United States (USA)**

## SARA Section 311/312 (Specific toxic chemical listings):

Acute, Fire

## SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## RCRA (hazardous waste code):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

## Proposition 65 (California):

## Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Prelude One**

None of the ingredients are listed.

#### Canada

## Canadian Domestic Substances List (DSL):

All ingredients are listed.

## Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

#### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

## **SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

## **GHS Full Text Phrases:**

None

#### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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