SECTION 1: Identification

1.1. Identification
Product form : Mixture
Trade name : ProSeal X
Product Number : F5111

1.2. Recommended use and restrictions on use
Use of the substance/mixture : Spray foam insulation
Recommended use : Insulation foams, Professional use, Consumer use

1.3. Supplier
Icynene-Lapolla
15402 Vantage Parkway East, Ste. 322
Houston, Texas 77032
Tel: +1 281 219 4100, (877) 636-2648
Email: sdsinfo@icynene-lapolla.com

1.4. Emergency telephone number
Emergency number : CARECHEM (866) 928-0789

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
- Skin corrosion/irritation Category 2: Causes skin irritation
- Serious eye damage/eye irritation Category 1: Causes serious eye damage
- Specific target organ toxicity (repeated exposure) Category 2: May cause damage to organs through prolonged or repeated exposure

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

Signal word (GHS-US): Danger
Hazard statements (GHS-US): Causes skin irritation
Causes serious eye damage
May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US): Do not breathe mist, vapours, spray.
Wash hands thoroughly after handling.
Wear protective clothing, eye protection, face protection.
If on skin: Wash with plenty of water
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON center or doctor
Get medical advice/attention if you feel unwell.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container to local, regional, and/or international regulations

2.3. Other hazards which do not result in classification
Other hazards not contributing to the classification: No additional information available.

2.4. Unknown acute toxicity (GHS US)
Not applicable
**SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tris(2-chloroisopropyl) phosphate</td>
<td>(CAS-No.) 1244733-77-4</td>
<td>6.97</td>
</tr>
<tr>
<td>2,2'-oxybisethanol, diethylene glycol</td>
<td>(CAS-No.) 111-46-6</td>
<td>3.3 - 5.74</td>
</tr>
<tr>
<td>1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl-</td>
<td>(CAS-No.) 3855-32-1</td>
<td>&gt; 1.5</td>
</tr>
<tr>
<td>1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl-</td>
<td>(CAS-No.) 33329-35-0</td>
<td>&gt; 1.5</td>
</tr>
<tr>
<td>Cyclohexanamine, N-cyclohexyl-N-methyl-</td>
<td>(CAS-No.) 7560-83-0</td>
<td>&gt; 1.5</td>
</tr>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)]<em>alpha</em>.(2-aminomethyl(propyl)-omega_.(2-aminomethyl(thioxy)-)</td>
<td>(CAS-No.) 9046-10-0</td>
<td>0.66 - 1.1</td>
</tr>
</tbody>
</table>

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

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

### 5.2. Specific hazards arising from the chemical

- **Fire hazard**: Thermal decomposition can lead to the release of irritating gases and vapors. Toxic and corrosive vapors may be released.
- **Explosion hazard**: No direct explosion hazard.
- **Reactivity**: No dangerous reactions known under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

- **Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- **Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Stop leak if safe to do so.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel. Wear recommended personal protective equipment.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

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

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

6.4. Reference to other sections
For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Provide good ventilation in process area to prevent formation of vapor. Avoid all unnecessary exposure. Avoid contact with skin and eyes.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible materials: Strong acids. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Control parameter</th>
<th>Applicable/Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2'-oxybisethanol, diethylene glycol (111-46-6)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate (1244733-77-4)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl))-alpha-2(2-aminomethylethyl)-omega-2(2-aminomethylethoxy)- (9046-10-0)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Ensure adequate ventilation. Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Wear impermeable gloves.
**Eye protection:**
Chemical goggles or face shield

**Skin and body protection:**
Long sleeved protective clothing

**Respiratory protection:**
Where excessive vapor, mist, or dust may result, use approved respirator protection equipment

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability
Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions
No polymerization. No dangerous reactions known.

### 10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials
Strong acids. Strong bases.
### SECTION 10: Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition can lead to the release of irritating gases and vapors. Toxic and corrosive vapors may be released.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

- **Acute toxicity (oral)**: Not classified (Based on available data, the classification criteria are not met)
- **Acute toxicity (dermal)**: Not classified (Based on available data, the classification criteria are not met)
- **Acute toxicity (inhalation)**: Not classified (Based on available data, the classification criteria are not met)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,2'-oxybisethanol, diethylene glycol (111-46-6)</td>
<td>242 mg/kg</td>
<td>1100 mg/kg</td>
</tr>
<tr>
<td>1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)</td>
<td>500 mg/kg</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td>Tris(2-chloroisopropyl) phosphate (1244733-77-4)</td>
<td>500 mg/kg</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)],.alpha.-(2-aminomethylethyl)-omega.-(2-aminomethyleneoxy)- (9046-10-0)</td>
<td>242 mg/kg</td>
<td></td>
</tr>
<tr>
<td>1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N,N'-dimethyl- (33329-35-0)</td>
<td>446 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

#### Specific target organ toxicity – single exposure

- May cause damage to organs through prolonged or repeated exposure.

#### Specific target organ toxicity – repeated exposure

- May cause damage to organs through prolonged or repeated exposure.

- Aspiration hazard: Not classified (Based on available data, the classification criteria are not met)
- Viscosity, kinematic: No data available
- Symptoms/effects: May cause damage to organs through prolonged or repeated exposure.
- Symptoms/effects after inhalation: Overexposure may be irritating to the respiratory system.
- Symptoms/effects after skin contact: Causes skin irritation.
- Symptoms/effects after eye contact: Causes serious eye damage.
- Symptoms/effects after ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
- Other information: Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

- **Ecology - general**: This material has not been tested for environmental effects.

#### 12.2. Persistence and degradability

- **Mark IV - High 5**: Persistence and degradability: Not established.
12.3. Bioaccumulative potential

Mark IV - High 5

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the ozone layer: No additional information available

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

2,2'-oxybisethanol, diethylene glycol (111-46-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Poly(oxymethyl-1,2-ethanediyl), .alpha.-[2-aminomethyl]-.omega.-[2-aminomethylethoxy]- (9046-10-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag: XU - XU indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

2,2'-oxybisethanol, diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)
**ProSeal X**  
**Safety Data Sheet**  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)
- Listed on the Canadian DSL (Domestic Substances List)

#### Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-(aminomethylene)-ethoxy]- (9046-10-0)
- Listed on the Canadian DSL (Domestic Substances List)

#### 1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)
- Listed on the Canadian DSL (Domestic Substances List)

#### Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)
- Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

#### 2,2’-oxybisethanol, diethylene glycol (111-46-6)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

#### 2,2’-oxybisethanol, diethylene glycol (111-46-6)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (3855-32-1)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)
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- Listed on the Japanese ISHL (Industrial Safety and Health Law)
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- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-[2-(aminomethylene)-ethoxy]- (9046-10-0)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
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- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSG (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)
ProSeal X
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)**
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

**15.3. US State regulations**
No additional information available

**SECTION 16: Other information**

Revision date: 07 August 2018
Other information: None.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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