SECTION 1: PRODUCT & COMPANY INFORMATION

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PRODUCT
Trade name: SEALECTION 500 Thermal Insulation
Chemical name: Semi-rigid open cells
Chemical family: Urethane plastic foam
Product use: Insulation

SECTION 2: HAZARDS IDENTIFICATION

Physical State / Odor
Semi-rigid open cellular plastic / Neutral

Emergency Overview / Warning
Routes of Entry
Skin contact, inhalation (only if dust is created during cutting)

Eye Contact with dust
May cause mechanical irritation to eyes.

Skin Contact with dust
May cause mechanical irritation to skin.

Dust Inhalation
May cause mechanical irritation to respiratory system.

Dust Ingestion
May cause choking if swallowed.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients | CAS # | %
--- | --- | ---
Urethane Plastics | 9009-54-5 | 100

SECTION 4: FIRST AID MEASURES

Eye Contact
Flush eyes with running water for a minimum of 15 minutes.

Skin Contact
Wash with soap and water thoroughly.

Inhalation
Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, assist with oxygen. Consult physician.

Ingestion
No adverse effects anticipated by this route.

SECTION 5: FIRE FIGHTING MEASURES

Auto-Ignition Temperature
580˚C (1076˚F) ASTM D1929

Flash Ignition Temperature
Not established.
**PRODUCT: SEALECTION 500 SEMI-RIGID POLYURETHANE FOAM MATERIAL**

<table>
<thead>
<tr>
<th>Suitable Extinguishing Media</th>
<th>Use water, dry chemical, carbon dioxide or chemical foam.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Decomposition</td>
<td>Under fire conditions, carbon monoxide, carbon dioxide, hydrogen halides, phosphorous oxide and possible traces of hydrogen cyanide and nitrogen oxides.</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus with positive pressure.</td>
</tr>
<tr>
<td>Precautions</td>
<td>Rigid polyurethane foam, like other organic materials such as paper, wood and cotton, can present fire risks in some applications when exposed to ignition sources. Once ignited, fires can burn rapidly and produce rapid flame spread, quick flashover, toxic or flammable gases, dense smoke and intense heat. In no event should the polyurethane foam remain exposed or unprotected.</td>
</tr>
<tr>
<td></td>
<td>1) Make no application of foam with thickness greater than 12 inches (300 mm); it may cause spontaneous combustion of the foam to occur, often hours after the foam was applied. For application greater than 12 inches (300 mm), allowed first 12 inches thick applied foam to cool down before applying any additional lift.</td>
</tr>
<tr>
<td></td>
<td>2) Make no application of foam to interior wall and ceilings or other space enclosures without prompt and subsequent application of approved thermal barriers.</td>
</tr>
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<td></td>
<td>3) Do no welding, flame cutting or having flame source until proper foam surface thermal protection has been provided.</td>
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<tr>
<td></td>
<td>4) Avoid the confined storage of large urethane foam buns.</td>
</tr>
</tbody>
</table>

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

No information available. Refer to Section 13.

**SECTION 7: HANDLING & STORAGE**

| General information | Keep away from open flame, electrical or mechanical sparks, electric heaters, high powered lights, flame sources and flammable liquids and gases. Protect all indoor bun and sheet storage areas with fusible sprinkles. |

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Exposure Limit Values</th>
<th>Ingredients</th>
<th>WEEL (AIHA) (TWA) – 8 hr</th>
<th>OSHA PEL (TWA) – 8 hr</th>
<th>RSST (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Urethane Plastics</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Safety glasses during cutting.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Protection</td>
<td>Protective clothing to minimize skin exposure.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>Dust mask during cutting.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventilation</td>
<td>Use sufficient ventilation to keep exposure to dust at a minimum (below 5 mg/m³ breathable nuisance dust).</td>
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</tbody>
</table>

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

| Appearance | Semi-rigid open cellular plastic |
Odor | Neutral  
---|---  
Density | 1.5 to 3.0 pcf  
Auto-Ignition Temperature | 580°C (1076°F) ASTM D1929  
Melting Point | N/A, Thermoset.  
Decomposition temperature | >121°C (>250°F)  
Maximum Service Temperature | 82°C (180°F)  
Solubility in Water | None  

**SECTION 10: STABILITY & REACTIVITY**

Stability | This product is considered stable under normal conditions.  
Incompatibility | None known  
Hazardous Decomposition | Under fire conditions, carbon monoxide, carbon dioxide, hydrogen halides, phosphorous oxide and possible traces of hydrogen cyanide and nitrogen oxides.  
Hazardous Polymerization | None  
Corrosive Properties | None  
Oxidizer Properties | None  
Chemical Resistance | Stable in the presence of most solvents found in binders, bituminous materials, wood preservatives and sealers. Resistant to facers containing plasticizer, fuel, mineral oil, weak acids and weak bases. Resistant to fungi and microbes. UV rays causes a darkening of the foam surface and with time will degrade the surface.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Potential Acute Health Effects

Eye Contact | May cause mechanical irritation to eyes.  
Skin Contact | May cause mechanical irritation to skin.  
Dust Inhalation | May cause mechanical irritation to respiratory system.  
Dust Ingestion | May cause choking if swallowed.  

Potential Chronic Health Effects

Sensitization | Not known or reported.  
Carcinogenic Effects | The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.  
Mutagenic Effects | No known significant effects or critical hazards.  
Reproductive Effects | No known significant effects or critical hazards.  
Developmental Effects | No known significant effects or critical hazards.
SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity Data For Components Toxicity

Urethane Plastics | No data on product itself.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Method | The generation of waste should be avoided or minimized whenever possible. Waste must be disposed of in compliance with federal, state, provincial and local environmental control regulations.

Demilec Inc. has no control over the management practices or manufacturing processes of parties handling or using this material.

SECTION 14: TRANSPORTATION INFORMATION

Technical Shipping Name | Sealection 500 Semi-Rigid Open cells Urethane Foam Plastic material

Land Transport / DOT Classification | Non-regulated

Sea Transport / IMDG Classification | Non-regulated

Air Transport / ICAO / IATA Classification | Non-regulated

TDG Classification | Non-regulated

SECTION 15: REGULATORY INFORMATION

WHMIS | Non-regulated.

CEPA (DSL) | Non-regulated.

TSCA | Non-regulated.

SECTION 16: OTHER INFORMATION

This product does not contain nor is it manufactured with ozone depleting substances.

Notice:

The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is user’s responsibility to ensure that its activities comply with country, provincial and local laws.

This product may present hazards and should be used with caution. While certain hazards are described in this publication, no guarantee is made that these are only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

Prepared by | Demilec Inc.

Preparation Date | January, 2014

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