

**PRODUCT: SEALECTION 500 SEMI-RIGID
POLYURETHANE FOAM MATERIAL**



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY INFORMATION

MANUFACTURER OF CHEMICAL COMPONENTS

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PRODUCT

Trade name: SEALECTION 500 Thermal Insulation

Chemical name: Semi-rigid open cells
Urethane plastic foam
Chemical family: Urethane
Product use: Insulation

EMERGENCY TELEPHONE: CANUTEC (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Physical State / Odor	Semi-rigid open cellular plastic / Neutral
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Emergency Overview / Warning

Routes of Entry	Skin contact, inhalation (only if dust is created during cutting)
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Eye Contact with dust	May cause mechanical irritation to eyes.
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Skin Contact with dust	May cause mechanical irritation to skin.
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Dust Inhalation	May cause mechanical irritation to respiratory system.
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Dust Ingestion	May cause choking if swallowed.
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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.
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Skin Contact	Wash with soap and water thoroughly.
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Inhalation	Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, assist with oxygen. Consult physician.
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Ingestion	No adverse effects anticipated by this route.
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SECTION 5: FIRE FIGHTING MEASURES

Auto-Ignition Temperature	580°C (1076°F) ASTM D1929
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Flash Ignition Temperature	Not established.
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Suitable Extinguishing Media	Use water, dry chemical, carbon dioxide or chemical foam.
Hazardous Decomposition	Under fire conditions, carbon monoxide, carbon dioxide, hydrogen halides, phosphorous oxide and possible traces of hydrogen cyanide and nitrogen oxides.
Special Fire Fighting Procedures	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus with positive pressure.
Precautions	<p>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.</p> <p>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.</p> <p>2) Make no application of foam to interior wall and ceilings or other space enclosures without prompt and subsequent application of approved thermal barriers.</p> <p>3) Do no welding, flame cutting or having flame source until proper foam surface thermal protection has been provided.</p> <p>4) Avoid the confined storage of large urethane foam buns.</p>

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.
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SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit Values

Ingredients	WEEL (AIHA) (TWA) – 8 hr	OSHA PEL (TWA) – 8 hr	RSST (TWA)
Urethane Plastics	N/A	N/A	N/A
Eye Protection	Safety glasses during cutting.		
Skin Protection	Protective clothing to minimize skin exposure.		
Respiratory Protection	Dust mask during cutting.		
Ventilation	Use sufficient ventilation to keep exposure to dust at a minimum (below 5 mg/m ³ breathable nuisance dust).		

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance	Semi-rigid open cellular plastic
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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.



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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 bellow. 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.

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