

MATERIAL SAFETY DATA SHEET – FINISHED FOAM

SECTION 1: PRODUCT & COMPANY INFORMATION

MANUFACTURER OF CHEMICAL COMPONENTS

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PRODUCT

Trade name: HEATLOK SOY® 200 PLUS
 Chemical name: Rigid Urethane Foam Plastic
 Chemical family: Urethane

EMERGENCY TELEPHONE: 1-877-DEMILEC (336-4532) or CHEMTREC (800) 424-9300 or CANUTEC (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Physical State / Color / Odor Rigid cellular plastic / Green / Neutral

Emergency Overview / Warning

Routes of Entry Skin contact, inhalation (only if dust is created during cutting).

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.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	%
Urethane Plastics	9009-54-5	90 – 100
1, 1, 1, 3, 3 – Pentafluoropropane	460-73-1	1 – 5

SECTION 4: FIRST AID MEASURES

Eye Contact Flush with water for 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 a physician.

Ingestion No adverse effects anticipated by this route.

SECTION 5: FIRE FIGHTING MEASURES

Auto-Ignition Temperature	932°F (500°C) per ASTM D 1929
Flash Ignition Temperature	847°F (453°C) per ASTM D 1929
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. Material supports combustion.
Precautions	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. Make no application of foam to interior wall and ceilings or other space enclosures without prompt and subsequent application of approved thermal barriers. No welding or flame cutting until proper surface protection has been provided. Avoid the confined storage of large urethane foam buns.

SECTION 6: ACCIDENTAL RELEASE MEASURES

No information available. Refer to Section 13.

SECTION 7: HANDLING PRECAUTIONS

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 8: EXPOSURE CONTROL

Exposure Limit Values

Ingredients	OSHA PEL (TWA) – 8 hr	WEEL (AIHA) (TWA) – 8 hr
Urethane Plastics	N/A	N/A
1, 1, 1, 3, 3 – Pentafluoropropane	N/A	300 ppm

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance	Green rigid cellular plastic
Odor	Neutral
Density	2.1 lb/ft ³
Auto-Ignition Temperature	932°F (500°C) per ASTM D 1929
Melting Point	N/A, Thermoset
Decomposition Temperature	> 250°F (121°C)
Maximum Service Temperature	180°F (82°C)
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 cause 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.
1, 1, 1, 3, 3 – Pentafluoropropane	LC50: > 81.8 mg/l (96 hrs) (fish: rainbow trout); EC50: > 97.9 mg/l (48 hrs) (Daphnia magna)

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 (USA) LLC has no control over the management practices or manufacturing processes of parties handling or using this material.	

SECTION 14: TRANSPORTATION INFORMATION

Technical Shipping Name	Rigid Urethane Foam Plastic, HEATLOK SOY® 200 PLUS
Primary Hazard Class	N/A
Secondary Hazard Class	N/A
Label Required	None
Placard Required	None
Poison Constituent	N/A
UN Code	N/A
EPA Registration #	N/A
TDG Classification	Non-regulated
WHMIS Classification	Non-regulated

SECTION 15: REGULATORY INFORMATION

No information available.

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 the user's responsibility to ensure that its activities comply with country, state, 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 the 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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