

**MATERIAL SAFETY DATA SHEET**

Technical Barrier Systems  
151 Randall Street  
Oakville, Ontario, Canada, L6J 1P5  
(905) 842-9488

**SECTION 01 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier (WHMIS Classification) EMBE CRETE 467 HS Resin  
Product Use  
Manufacturer's Name Technical Barrier System Inc.  
Street Address 151 Randall Street  
City Oakville  
Province ON  
Postal Code L6J 1P5  
Emergency Telephone 888-537-2888  
Date MSDS Prepared 30-Dec-11  
MSDS Prepared by Keith Seaman  
Phone Number 888-537-2888  
Supplier's Name Technical Barrier System Inc.  
Street Address 151 Randall Street  
City Oakville  
Province ON  
Postal Code L6J 1P5  
Emergency Telephone 888-537-2888

**SECTION 02 : COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS,	%	C.A.S.#,LD/50,ROUTE,SPECIES,LC/50,ROUTE,SPECIES
HDI Homopolymer	>99	28182-81-2%

**SECTION 03 : HAZARDS IDENTIFICATION**

Route of Entry  
Skin Contact Moderate irritation or defatting of skin upon prolonged or repeated contact.  
Skin Absorption  
Eye Contact Irritation, burning, tearing and redness  
Inhalation May be harmful if inhaled  
Ingestion Abdominal pain, nausea, vomiting, and diarrhea  
Emergency Overview  
WHMIS Symbols  
Potential Health Effects

**SECTION 04 : FIRST AID MEASURES**

Skin Contact Remove contaminated clothing, wash skin with soap and water.  
Eye Contact Flush with cool water for at least 15 minutes. Call a physician.  
Inhalation Move to fresh air. Aid breathing if necessary. Call a physician.  
Ingestion DO NOT INDUCE VOMITING. Get medical attention immediately.

**SECTION 05 : FIRE FIGHTING MEASURES**

Flammable: Yes / No  
If yes under which conditions?  
Means of Extinction CO2, dry chemical, water not recommended. Wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as extinguishing agent.  
Flashpoint (°F) and Method >200° F, method TCC

Upper Flammable Limit (% by volume)	not determined
Lower Flammable Limit (% by volume)	not determined
Autoignition Temperature (°C)	
Explosion Data - Sensitivity to Impact	Pressure may build up in containers and create explosion hazard
Explosion Data - Sensitivity to Static Discharge	
Hazardous Combustion Products	

**SECTION 06 : ACCIDENTAL RELEASE MEASURES**

Leak and Spill Procedures	Dike spill area. Absorb with inert absorbant material. Place in sealed containers for proper disposal.
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**SECTION 07 : HANDLING AND STORAGE**

Handling Procedures and Equipment	Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.
Storage Requirements	

**SECTION 08 : EXPOSURE CONTROL / PERSONAL PROTECTION**

Exposure Limits: ACGIH TLV; OSHA PEL; Other	
Specific Engineering Controls (such as ventilation, enclosed process)	Local exhaust is recommended.
Personal Protective Equipment	RESPIRATORY PROTECTION: Use NIOSH approved dust mask respirator under appropriate OSHA standards and regulations. A combination of both proper ventilation and respiratory protection would tend to eliminate most risks. Protective gloves are recommended. EYE PROTECTION: wear liquid chemical goggles. Contact lenses should not be worn. Long sleeve shirts and pants are recommended.

**SECTION 09 : PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	liquid
Odour and Appearance	clear to amber liquid, odorless
Odour Threshold (ppm)	
Weight per gallon	9.16 lbs (+/- 0.25)
Vapour Density (air=1)	
Vapour Pressure (mmHg)	
Evaporation Rate	slower than ether
Boiling Point (°C)	
Freezing Point (°C)	
Percent VOC by volume	Negligible
Solubility in water	Reacts

**SECTION 10 : STABILITY AND REACTIVITY**

Chemical Stability Yes/No	Stable
If no, under what conditions?	
Compatibility with Other Substances Yes/No	Avoid excessive heat, oxidizing agents, strong acids and bases, polymerization initiators, alcohols, amines, water.
If yes, which ones?	
Reactivity, and under what conditions?	
Hazardous Decomposition Products	Carbon dioxide, nitrogen oxides, and organic compounds

**SECTION 11 : TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure	N/A
Effects of Cronic Exposure	N/A
Irritancy of Product	N/A
Skin Sensitization	N/A
Respiratory Sensitization	N/A
Carcinogenicity - IARC	No
Carcinogenicity - ACGIH	N/A
Reproductive Toxicity	N/A
Teratogenicity	N/A
Embryotoxicity	N/A
Mutagenicity	N/A
Name of Synergistic Products / Effects	

**SECTION 12 : ECOLOGICAL INFORMATION**

Aquatic Toxicity	n?a
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**SECTION 13 : DISPOSAL CONSIDERATIONS**



**SECTION 14 : TRANSPORT INFORMATION**

Special Shipping Instructions

PIN

DOT Less tan 33,333# per container: not regulated by DOT

TDG Environmentally hazardous substance, liquid n.o.s. (Hexamethylene Diisocyanate)  
Class 9 UN 3802 PG III**SECTION 15 : REGULATORY INFORMATION**

WHMIS Classification

OSHA

SERA

TSCA All chemicals in this product are not subject to TSCA.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

**SECTION 16 : OTHER INFORMATION**

DSL All substances listed on the Canadian Domestic Substance List are not required to be listed.