

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

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| Product Identifier (WHMIS Classification) | Kelmar PC Hardener |
| Product Use | Amine hardener |
| 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 | 1-Feb-10 |
| 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

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| Phenol | 25154-52-3 |
| Poly(oxy(methyl-1,2-ethanediyl)), .omega.-(2-aminomethylethoxy)-Polyoxypropylenediamine | 9046-10-0 |

All percentages listed are weight / weight

SECTION 03 : HAZARDS IDENTIFICATION

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| Route of Entry | Dermal; heated product may produce inhalable vapors. |
| Skin Contact | |
| Skin Absorption | |
| Eye Contact | |
| Inhalation | |
| Ingestion | |
| Emergency Overview | Danger! Corrosive - causes skin and eye burns and respiratory irritation. Harmful if absorbed through the skin. |
| WHMIS Symbols | |

SECTION 04 : FIRST AID MEASURES

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| Skin Contact | For skin contact, under a safety shower, immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes. |
| Eye Contact | For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention. |
| Inhalation | If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. |
| Ingestion | If swallowed, immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Have physician determine whether vomiting or stomach evacuation is necessary. |

SECTION 05 : FIRE FIGHTING MEASURES**Flammable: Yes / No****If yes under which conditions?****Means of Extinction****Flashpoint (°C) and Method** >200°F (>93°C)**Upper Flammable Limit (% by volume)** Not established**Lower Flammable Limit (% by volume)** Not established**Autoignition Temperature (°C)****Explosion Data - Sensitivity to Impact****Explosion Data - Sensitivity to Static****Discharge****Hazardous Combustion Products** Decomposition and combustion products may be toxic.**SECTION 06 : ACCIDENTAL RELEASE MEASURES****Leak and Spill Procedures** Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.**SECTION 07 : HANDLING AND STORAGE****Handling Procedures and Equipment** Do not get in eyes, on skin, on clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Individuals should wash thoroughly after handling. For industrial use only.**Storage Requirements** Store in sealed containers in dry area to avoid moisture absorption and contamination. Wear appropriate protective equipment to avoid personal contact.**SECTION 08 : EXPOSURE CONTROL / PERSONAL PROTECTION****Exposure Limits: ACGIH TLV; OSHA PEL; Other****Specific Engineering Controls (such as ventilation, enclosed process)** Good general mechanical ventilation and local exhaust.**Personal Protective Equipment** Wear impermeable gloves and protective clothing. Use NIOSH approved organic vapor/cartridge respirator when vapor/mist exposure is likely. Use full face shield.**SECTION 09 : PHYSICAL AND CHEMICAL PROPERTIES****Physical State** Liquid**Odour and Appearance** Amine, yellow**Odour Threshold (ppm)****Specific Gravity****Vapour Density (air=1)****Vapour Pressure (mmHg)****Evaporation Rate****Boiling Point (°C)****Freezing Point (°C)****pH****Coefficient of Water / Oil Distribution****SECTION 10 : STABILITY AND REACTIVITY****Chemical Stability Yes/No** Stable**If no, under what conditions?****Compatibility with Other Substances Yes/No** Incompatible with strong oxidizers, strong acids and bases**If yes, which ones?****Reactivity, and under what conditions?** Hazardous polymerization will not occur. Avoid excessive heat for prolonged periods of time.**Hazardous Decomposition Products** Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, aldehydes and ketones.

SECTION 11 : TOXICOLOGICAL INFORMATION

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| Effects of Acute Exposure | |
| Effects of Chronic Exposure | |
| Irritancy of Product | |
| Skin Sensitization | Possible in susceptible individuals. |
| Respiratory Sensitization | Irritant |
| Carcinogenicity - IARC | |
| Carcinogenicity - ACGIH | |
| Reproductive Toxicity | |
| Teratogenicity | |
| Embryotoxicity | |
| Mutagenicity | |
| Name of Synergistic Products / Effects | |

SECTION 12 : ECOLOGICAL INFORMATION

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| Aquatic Toxicity | No ecological information available |
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SECTION 13 : DISPOSAL CONSIDERATIONS

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| Waste Disposal | Handle disposal of waste material in manner which complies with local, state, province and federal regulation. |
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SECTION 14 : TRANSPORT INFORMATION

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| Special Shipping Instructions | |
| PIN | |
| TDG | Corrosive liquid, n.o.s. Nonyl phenol, Polyoxypropylenediamine Class 8 UN 1760 PG II |
| ICAO | |

SECTION 15 : REGULATORY INFORMATION

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| WHMIS Classification | |
| OSHA | This product is considered to be a hazardous chemical under this standard. |
| SERA | This product does not contain any chemicals for routine annual toxic chemical release reporting. |
| 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 the information required by CPR. | |

SECTION 16 : OTHER INFORMATION

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