

| SECTION 1 – PRODUCT IDENTIFICATION AND USE | | | | |
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| Material Denso Protal 7200 “A” | | | | |
| Manufacturer's Name Denso North America Inc. | | Supplier's Name Denso North America Inc. | | |
| Street Address 90 Ironside Crescent, Unit 12 | | Street Address 90 Ironside Crescent, Unit 12 | | |
| City Toronto | Province/Country Ontario | City Toronto | Province/Country Ontario | |
| Postal Code M1X 1M3 | Emergency Telephone No. (613) 996-6666 | Postal Code M1X 1M3 | Emergency Telephone # (613) 996-6666 | |
| Product Class Epoxy | Chemical Family Not Available | Manufacturer's Code 2072-2011 | | |
| WHMIS Classification Class D, Division 2, Subdivision A | Trade Name & Synonyms Denso Protal 7200 “A” | Material Use On-site Liquid Coating for Metal Pipes | | |
| SECTION 2 – HAZARDOUS INGREDIENTS | | | | |
| Ingredients | % | CAS Number | LD50 of Material (Specific Species & Route) | LC50 of Material (Specific Species) |
| Epoxy Resin | 15-40 | 25085-99-8 | Oral> 5000mg/kg Rat | N/A = Not Available |
| Calcium Carbonate | 15-40 | 1317-65-3 | N/A=Not Available | N/A |
| Talc | 15-40 | 14807-96-6 | N/A | N/A |
| Bisphenol F Epoxy | 10-30 | 28064-14-4 | N/A | N/A |
| Aliphatic Glycidyl Ether | 3-7 | 17557-23-2 | Oral> 4500mg/kg Rat | N/A |
| Organophilic Clay | 1-5 | 71011-26-2 | N/A | N/A |
| Titanium Dioxide | 1-5 | 13463-67-7 | N/A | N/A |
| Phenyl Carbinol | 1-5 | 100-51-6 | Oral> 3100mg/kg Rat | N/A |
| Fumed Silica | 0.5-1.5 | 67762-90-7 | Oral> 5mg/kg Rat | N/A |
| Organophilic Clay | 0.5-1.5 | 68953-58-2 | N/A | N/A |
| Propylene Carbonate | 0.5-1.5 | 108-32-7 | Oral> 29000mg/kg Rat | N/A |
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| SECTION 3 – PHYSICAL DATA | | | | |
| Physical State Gas <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> | | Odour and Appearance Mild Odour, Brown Liquid | | Odour Threshold (PPM) Not Available |
| Vapour Pressure (mm Hg) Not Available | Vapour Density (air = 1) Not Available | Evaporation Rate Not Available | Boiling Point (° C) 146°C | Freezing Point (° C) Not Available |
| % Volatile (by volume) 0.05 | Solubility in Water (20° C) Slight | pH Not Available | Specific Gravity 1.62 | Coeff Water/Oil Dist Not Available |
| SECTION 4 – FIRE AND EXPLOSION DATA | | | | |
| Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, Under What Conditions? | | | | |
| Means of Extinction Waterfog, CO2, Dry Chemical, Foam | | | | |
| Special Procedures | | | | |
| Flashpoint (° C) and Method 176°C(Setaflash Closed Cup) | Upper Explosion Limit (% by volume) Not Available | | Lower Explosion Limit (% by volume) Not Available | |
| Auto Ignition Temperature (° C) Not Available | TDG Flammability Classification Not Applicable | | Hazardous Combustion Products CO, CO2, Phenolics | |
| Sensitivity to Mechanical Impact Not Applicable | Rate of Burning Not Applicable | Explosive Power Not Applicable | Sensitivity to Static Discharge Not Applicable | |

| SECTION 5 – REACTIVITY DATA | | | |
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| Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | If No, Under What Conditions? | |
| Hazardous Polymerization Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | May Occur with Greater Than 1lb of N-Aminoethylpiperazine See Part "B" | |
| Reactivity, and Under What Conditions? | | Not Applicable | |
| Hazardous Decomposition Products | | Not Available | |
| SECTION 6 – TOXICOLOGICAL PROPERTIES | | | |
| Route of Entry Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation Acute <input checked="" type="checkbox"/> Inhalation Chronic <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> | | | |
| Effects of Acute Exposure to Material Contact of Material with Eyes will Result in Eye Irritation, Contact with Skin may Cause Dermatitis, Ingestion may Cause Abdominal Pain, Vomiting and Diarrhea, Inhalation will Result in Respiratory Tract Irritation. | | | |
| Effects of Chronic Exposure to Material Some Individuals may become Sensitized to the Material over Time. (See Below) | | | |
| LD50 of Material Specify Species and Route Not Available | LC50 of Material Specify Species Not Available | Teratogenicity of Material Not Applicable | Mutagenicity of Material Not Applicable |
| Sensitization Capability of Material Skin and Respiratory | Carcinogenicity of Material Not Applicable | Reproductive Toxicity of Material Not Applicable | Synergistic Materials None Known |
| Exposure Limits of Material (TLV) Calcium Carbonate – TWA 10 mg/m3 (ACGIH), Talc – TWA 2 mg/m3 (ACGIH), Organophilic Clay – TWA 15 mg/m3 (OSHA), Titanium Dioxide – TWA 10 mg/m3 (ACGIH), Organophilic Clay – TWA 10 mg/m3 (ACGIH) | | | |
| SECTION 7 – PREVENTATIVE MEASURES | | | |
| Personal Protective Equipment Wear Clean Long Sleeved, Body Covering Clothing, Use Impervious Gloves and Protective Clothing. Use Goggles and Full Face Shield. When Respiratory Protection is Required, Use an Approved Air Purifying Respirator. (See Below) | | | |
| Gloves (Specify) Impervious Type (Neoprene, PVC, Butyl) | Respiratory (Specify) Approved Air Purifying Respirator (Organic Vapour Cartridge) | Eye (Specify) Chemical Goggles | |
| Footwear (Specify) Work Boots | Clothing (Specify) Clean Long Sleeved, Body Covering (Overalls, Tyvek Suit) | Other (Specify) Full Face Shield | |
| Engineering Controls (Specify e.g. Ventilation Enclosed Process) Provide General Dilution of Local Exhaust in Volume and Pattern to Keep TLV of Hazardous Ingredients in Section 6 Below Acceptable Limits. | | | |
| Leak and Spill Procedure Remove All Sources of Ignition, Provide Adequate Ventilation. Avoid Prolonged Breathing of Vapours. Remove to a Container or Absorb with Clay, Diatomaceous Earth or Other Inert Absorbent. | | | |
| Waste Disposal **DO NOT INCINERATE CLOSED CONTAINERS** Incineration or Landfill in an Approved Site in Accordance with Local and Federal Regulations. | | | |
| Handling Procedure and Equipment Avoid Inhalation, Skin and Eye Contact. Practice Good Personal Hygiene. Wash Repeatedly with Soap and Water After Use and Before Work Breaks. | | | |
| Storage Requirements Keep Containers Closed and in a Cool Dry Place. | | | |
| Special Shipping Information | | | |

| SECTION 8 – FIRST AID MEASURES | | |
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| <p>EYE CONTACT – Flush Thoroughly with Water for at Least 15 Minutes. Get Immediate Medical Attention.</p> <p>SKIN CONTACT – Wash the Exposed Areas with Soap and Water Immediately. Call a Physician if Irritation Persists.</p> <p>INHALATION – Remove to Fresh Air. If Breathing is Difficult Administer Oxygen.</p> <p>INGESTION – Do Not Induce Vomiting. Transport to a Medical Facility.</p> | | |
| Sources Used | | |
| H & S Data from Raw Material Suppliers. | | |
| Additional Information | | |
| DISCLAIMER AND LIMITATION OF LIABILITY | | |
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| SECTION 9 – PREPARATION OF THE MSDS | | |
| Prepared by (Group, Department, etc.) Denso North America Inc. | Phone Number (416) 291-3435 | Date September 3, 2008 |