

<b>SECTION 1 – PRODUCT IDENTIFICATION AND USE</b>				
Material <b>Denso Protal 7200 “A”</b>				
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
<b>SECTION 2 – HAZARDOUS INGREDIENTS</b>				
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
Organophillic 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
<b>SECTION 3 – PHYSICAL DATA</b>				
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
<b>SECTION 4 – FIRE AND EXPLOSION DATA</b>				
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	

<b>SECTION 5 – REACTIVITY DATA</b>			
Chemical Stability		If No, Under What Conditions?	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Hazardous Polymerization		May Occur with Greater Than 1lb of N-Aminoethylpiperazine	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		See Part "B"	
Reactivity, and Under What Conditions?		Not Applicable	
Hazardous Decomposition Products		Not Available	
<b>SECTION 6 – TOXICOLOGICAL PROPERTIES</b>			
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	LC50 of Material Specify Species	Teratogenicity of Material	Mutagenicity of Material
Not Available	Not Available	Not Applicable	Not Applicable
Sensitization Capability of Material	Carcinogenicity of Material	Reproductive Toxicity of Material	Synergistic Materials
Skin and Respiratory	Not Applicable	Not Applicable	None Known
Exposure Limits of Material (TLV)			
Calcium Carbonate – TWA 10 mg/m3 (ACGIH), Talc – TWA 2 mg/m3 (ACGIH), Organophillic Clay – TWA 15 mg/m3 (OSHA), Titanium Dioxide – TWA 10 mg/m3 (ACGIH), Organophillic Clay – TWA 10 mg/m3 (ACGIH)			
<b>SECTION 7 – PREVENTATIVE MEASURES</b>			
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)	Respiratory (Specify)	Eye (Specify)	
Impervious Type (Neoprene, PVC, Butyl)	Approved Air Purifying Respirator (Organic Vapour Cartridge)	Chemical Goggles	
Footwear (Specify)	Clothing (Specify)	Other (Specify)	
Work Boots	Clean Long Sleeved, Body Covering (Overalls, Tyvek Suit)	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			

<b>SECTION 8 – FIRST AID MEASURES</b>		
<p><b>EYE CONTACT</b> – Flush Thoroughly with Water for at Least 15 Minutes. Get Immediate Medical Attention.</p> <p><b>SKIN CONTACT</b> – Wash the Exposed Areas with Soap and Water Immediately. Call a Physician if Irritation Persists.</p> <p><b>INHALATION</b> – Remove to Fresh Air. If Breathing is Difficult Administer Oxygen.</p> <p><b>INGESTION</b> – Do Not Induce Vomiting. Transport to a Medical Facility.</p>		
Sources Used		
H & S Data from Raw Material Suppliers.		
Additional Information		
<b>DISCLAIMER AND LIMITATION OF LIABILITY</b>		
<p>While DENSO NORTH AMERICA INC. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the test conducted, the data is not to be taken as warranty or representation for which DENSO NORTH AMERICA INC. assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Final determination of the suitability of the material for the use contemplated, the manner of use, and whether the suggested use infringes any patent is the sole responsibility of the buyer.</p>		
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<b>SECTION 9 – PREPARATION OF THE MSDS</b>		
Prepared by (Group, Department, etc.) Denso North America Inc.	Phone Number (416) 291-3435	Date January 1, 2005