SECTION 1 – PRODUCT IDENTIFICATION AND USE										
Material TDG Classification										
Denso Protal 7000 "B" Amines, Liquid, Corrosive, N.O.S.(N-Aminoethylpiperazine) UN2735, Class 8, PGIII										
Manufacturer's Name		Supplier's Name								
Denso North America Inc.					Denso North America Inc.					
Street Address					Street Address					
90 Ironside Crescent, Unit 12					90 Ironside Crescent, Unit 12					
City		Province/Country		City			Province/Country			
Toronto		Ontario		Toronto			Ontario			
Postal Code		Emergency Telephone No.		Postal Code			Emergency Telephone #			
M1X 1M3		(613) 996-6666		M1X 1M3 Manufacturer's Cod		uror'o Cod	(613) 996-6666			
Product Class Amine		Chemical Family Not Available		2053-3091			e .			
WHMIS Classification		Trade Name & Synonyms		Material Use						
Class D, Division 2	. Sub.A	Denso Protal 7000 "B"					Coating for Metal Pipes			
Class E		Bondo i rotal roto B								
SECTION 2 – HAZARDOUS INGREDIENTS										
Ingredients		%	CAS Number	LD50 of Material			LC50 of Material			
					(Specific Species & Route)		(Specific Species)			
N-Aminoethylpiperazine		30-60	140-31-8		Oral> 2150mg/kg Rat		N/A = Not Available			
Polyamide Resin		10-30	68410-23-1		16000mg		N/A			
Bisphenol "A"		10-30	80-05-7	Oral> 4	4100mg/k	g Rat	N/A			
Dibutyl Phthalate		10-30	84-74-2	N/A			N/A			
Epoxy Resin		10-30	9072-62-2	N/A			N/A			
Nonyl Phenol		7-13	25154-52-3	Oral> 580mg/kg Rat			N/A			
Triethylenetetramine		5-10	112-24-3	Oral> 3800mg/kg Rat		Rat	N/A			
Amino Silane		5-10	1760-24-3	N/A			N/A			
Ferric Oxide Hydroxide		3-7	51274-00-0	N/A			N/A			
Benzyldimethylamine		1-5	103-83-3	N/A			N/A			
		SEC	TION 3 – PHY	SICAL I	DATA					
Physical State Gas ☐ Liquid ☒ Se	olid \square		Appearance	Odour Threshold (PPM) w Liquid Not Available						
Vapour Pressure (mm Hg)			Ammoniacal Odour, Yellov sity (air = 1) Evaporation Rate		Boiling Point (° C)		Freezing Point (° C)			
Not Available	Not Ava	ilable	Not Available				Not Available			
% Volatile (by volume)					Specific Gravity		Coeff Water/Oil Dist			
Not Applicable	Modera	te 12.0		1.06			Not Available			
SECTION 4 – FIRE AND EXPLOSION DATA										
Flammability			er What Conditions							
Yes No No										
Means of Extinction	v Chamir	al Ecom								
Waterfog, CO2, Dry Chemical, Foam Special Procedures										
Flashpoint (° C) and Metho	Upper Expl	volume) Lower Explosion Limit (% by volume)								
95°C (Setaflash Closed Cup)			Not Available				ot Available			
Auto Ignition Temperature (° C)		TDG Flammability Classification		on	Hazardou	Hazardous Combustion Products				
Not Available		Not Applicable					Oxides of Nitrogen			
Sensitivity to Mechanical Impact		Rate of Burning					ty to Static Discharge			
Not Applicable		Not Applicable		Not Applicable		Not Applicable				

SECTION 5 – REACTIVITY DATA										
Chemical Stability If No, Under What Conditions? Yes ☑ No ☐										
Hazardous Polymerization										
Yes No Reactivity, and Under What Conditions?										
Not Applicable										
Hazardous Decomposition Pro	ducts									
Not Available										
SECTION 6 – TOXICOLOGICAL PROPERTIES										
Route of Entry Skin Contact ⊠ Skin Absorption ⊠ Eye Contact ⊠ Inhalation Acute ⊠ Inhalation Chronic ⊠ Ingestion ⊠										
Effects of Acute Exposure to Material Contact of Material with Eyes will Result in Eye Irritation and Burns, Contact with Skin may Cause										
Irritation and Burns, Ingestion may Lead to Gastrointestinal Irritation or Ulceration, Inhalation may										
Result in Respiratory Tract Irritation and Burns.										
Effects of Chronic Exposure to Material Some Individuals may become Sensitized to the Material Over Time. (See Below)										
LD50 of Material	LC50 of		Teraogenicity	ne. (See Bei	Mutagenicity of Material					
Specify Species and Route	Specify Species		Torangermoney or material							
Not Available Sensitization Capability of		Not Available		olicable Foxicity of	Not Applicable Synergistic Materials					
Material	Carcinog	Carcinogenicity of Material		oxicity of	Synergistic Materials					
Skin and Respiratory	Not Applicable		Not Applicable		None Known					
Exposure Limits of Material (TLV)										
Dibutyl Phthalate – TWA 5mg/m3 (ACGIH), Ferric Oxide Hydroxide – TWA 10mg/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. (Se	e Below	Respiratory (Specify)		l = (0 't)						
Gloves (Specify) Impervious Type			g Respirator	Eye (Specify) Chemical (
(Neoprene, PVC, Butyl)			tridge)	Chemical deggled						
Footwear (Specify)		Clothing (Specify)		Other (Specify)						
Work Boots		Clean Long Sleeve		Full Face Shield						
Covering (Overalls, Tyvek Suit) 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 Procething of										
Remove All Sources of Ignition, Provide Adequate Ventilation. Avoid Prolonged Breathing of Vapours. Remove to a Container or Absorb with Clay, Diatomacious 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

EYE CONTACT – Flush Thoroughly with Water for at Least 15 Minutes.

Get Immediate Medical Attention.

SKIN CONTACT – Wash the Exposed Areas with Soap and Water Immediately.

Call a Physician if Irritation Persists.

INHALATION – Remove to Fresh Air. If Breathing is Difficult Administer Oxygen.

INGESTION – Do Not Induce Vomiting. Administer Large Amounts of Milk or Water if Available.

Transport to a Medical Facility.

Sources Used

H & S Data from Raw Material Suppliers.

Additional Information

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Prepared by (Group, Department, etc.) Denso North America Inc. PREPARATION OF THE MSDS Phone Number (416) 291-3435 Date September 3, 2008