

SECTION 1 – PRODUCT IDENTIFICATION AND USE				
Material Denso Protal 7900HT “B”		TDG Classification Amines, Liquid, Corrosive, N.O.S. (Cycloaliphatic amine), UN2735, Class 8, PGII		
Manufacturer's Name Denso North America		Supplier's Name Denso North America		
Street Address 9747 Whithorn Drive		Street Address 9747 Whithorn Drive		
City Houston	Province/Country USA	City Houston	Province/Country USA	
Postal Code 77095	Emergency Telephone No. 1-801-629-0667	Postal Code 77095	Emergency Telephone # 1-801-629-0667	
Product Class Amine	Chemical Family Not Available	Manufacturer's Code 61-7900HTB		
WHMIS Classification Class D, Division 2, Sub.A Class E	Trade Name & Synonyms Denso Protal 7900HT “B”	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)
4,4'-Methylenedicyclohexanamine	40-80	1761-71-3	>500 mg/kg (Rat)	46-100 mg/L (Golden Orfe)
SECTION 3 – PHYSICAL DATA				
Physical State Gas <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/>		Odour and Appearance Ammoniacal Odour, Black 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) 247° C	Freezing Point (° C) Not Available
% Volatile (by volume) 0.00	Solubility in Water (20° C) Complete	pH Not Available	Specific Gravity 1.43	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, Foam, Dry Chemical				
Special Procedures				
Flashpoint (° C) and Method 112° 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, Oxides of Nitrogen
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				
Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		If No, Under What Conditions?		
Hazardous Polymerization Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

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 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 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)			
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. Store above 4°C.			
Special Shipping Information			

SECTION 8 – FIRST AID MEASURES		
<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. Administer Large Amounts of Milk or Water if Available. Transport to a Medical Facility.</p>		
Sources Used		
H & S Data from Raw Material Suppliers.		
Additional Information		
DISCLAIMER AND LIMITATION OF LIABILITY		
<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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SECTION 9 – PREPARATION OF THE MSDS		
Prepared by (Group, Department, etc.) Denso North America	Phone Number 281-821-3355	Date January 1, 2010