

MATERIAL SAFETY DATA SHEET

DuraPower Tape

NA - Not Applicable

NK - Not Known

NE - Not Established

NR - Not Required

Manufacturer's Information

DuraPower Products, Inc.					
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Emergency Telephone:	(408) 441-6369	Contact Person:	Patrick Kelley		
Product Name:	DuraPower Tape (Pipe & Hose Repair Kit)				
Product Part #:	DPT-0130, DPT-0260, DPT-3108, DPT-4180				

Section One - Hazardous Ingredients/Identity Information

All health hazards which comprises 1% or greater of the composition, and carcinogens if 0.1% of the composition or greater.

Technical (Specific) Chemical Name	C.A.S. No.	OSHA TWA/	ACGIR TWA/STEL (Threshold Limit Value)	Other Limits Recommended (Optional)	% (Optional)
Polyisocyanate based on MDI <i>Specific chemical identity is withheld as a trade secret.</i>		NE	NE	NR	76%
Diphenylmethane Di isocyanate (MDI) <i>Non-isomer specific CAS number includes 2,2' MDI and 2,4' MDI.</i>	26447-40-5	NE	NE	NR	1.4%
4,4' - Dihenylmethane Di isocyanate (MDI) (2,2; 2,4)	101-68-8NE		NE	NR	22%

(Exposure limits of 100 ppm TWA (150 ppm STEL) are recommended based on similarity to propylene glycol monomethy 1 ether)

Section Two - Fire and Explosion Hazard Data

Flash Point (Test Method): 104.0°F (40.0°C)	Flammable Limits:	Lel (%) 13.1 @ 283°F PMA 1.0 Xylene	Uel (%) 1.3 @ 173°F PMA 7.0 Xylene
NFPA RATINGS (National Fire Protection Association)			
Health:	3		
Flammability:	1		
Reactivity:	2		
Special Hazards:	NA		
Extinguishing Media: Dry chemical carbon dioxide, high expansion chemical foam. Water spray for large fires.			
Special Fire Fighting Procedures: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn. Use cold water to cool fire-exposed containers.			
Unusual Fire and Explosion Hazards: Toxic vapor and gases may be generated by thermal decomposition or combustion. Can polymerize and decompose which can cause pressure build-up in closed containers (At temperatures greater than 400°F or 204°C).			
Hazardous Products Formed By fire or Thermal Decomposition: By high heat and fire: Carbon dioxide, carbon monoxide, oxides of nitrogen, traces of HCG, MDI. Vapors or aerosols.			

Section Three - Physical/Chemical Characteristics

Boiling Point 694 F (368 C)	Specific Gravity 1.14 @ 77 F (25 C)	Melting Point NE	Vapor Pressure Less than 10-5 mmHg at 77 F (25 C) for MDI
Solubility in Water Resets Slow	Vapor Density (Air=1) 8.5 (MDI)	% Volatile by Volume Negligible	Evaporation Rate (Butyl Acetate=1) N/A
Appearance and Odor Dark brown, Viscous Liquid, Aromatic Odor		Bulk Density 9.5 lbs/gal	Other (If any)

Section Four - Reactivity and Stability Data

Stable <u>Yes</u> Unstable <u> </u> Conditions to Avoid: <u>Moisture, until ready to use</u>
Hazardous Polymerization: May Occur <u>Yes</u> Will Not Occur <u> </u> Conditions to avoid: <u>Moisture, until ready to use</u>
Incompatibility (Materials To Avoid): Water (Except to activate resin), Acetone, Strong bases, Alcohol
Hazardous "Non-Thermal" or "Non-Fire" Decomposition or By-Products: NA

Section Five - Health Hazard Data

Health Hazards: Acute <u>Yes</u> Chronic <u> </u> <i>Note: If "Chronic" is checked, elaborate below on what the effects are.</i>																				
Routes of Entry:																				
<table border="1"> <thead> <tr> <th>Manner</th> <th>Yes</th> <th>No</th> <th>Signs and Symptoms of Exposure</th> </tr> </thead> <tbody> <tr> <td>Inhalation</td> <td>x</td> <td></td> <td>Runny nose, sore throat, coughing, chest pain</td> </tr> <tr> <td>Skin</td> <td>x</td> <td></td> <td>Reddening, swelling, rash, blistering</td> </tr> <tr> <td>Ingestion</td> <td>x</td> <td></td> <td>Sore throat, nausea, vomiting and diarrhea</td> </tr> <tr> <td>Eyes</td> <td></td> <td>x</td> <td>Aerosols or vapors are irritating</td> </tr> </tbody> </table>	Manner	Yes	No	Signs and Symptoms of Exposure	Inhalation	x		Runny nose, sore throat, coughing, chest pain	Skin	x		Reddening, swelling, rash, blistering	Ingestion	x		Sore throat, nausea, vomiting and diarrhea	Eyes		x	Aerosols or vapors are irritating
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Emergency and First Aid Procedures:																				
Inhalation: Remove subject to fresh air. Administer CPR if needed. Seek medical attention.																				
Skin: Wash affected area with soap and water. Seek medical attention if irritation develops.																				
Ingestion: Do not induce vomiting. Give 2 cups of water to drink. Consult physician.																				
Eye: Flush with large amounts of water for 15 minutes. Seek medical attention immediately.																				
Medical Conditions General aggravated by exposure: N/A																				
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Section Six - Precautions For Safe Handling and Use

Steps To Be Taken If Material Is Spilled or Released:

Ventilate spill area. Prevent entry into water system. Wear full protective equipment during clean-up

Disposal Method:

Waste must be disposed in accordance with federal, state, and local environmental control methods. Incineration is the preferred method.

Precautions To Take In Storage and Handling:

Store in tightly closed containers. Avoid contact with skin and eyes. Do not breath aerosols or vapors.

Section Seven - Control Measures

Respiratory Protection (Specify Type): Local exhaust (avoid aerosols & vapors)

Gloves: Buty 1 Rubber

Ventilation Needed: Local Exhaust: Should be used .
Mechanical (General): NR

Eye Protection: Chem Goggles

Work/Hygienic: Wash thoroughly after use

Other:

Are any of the chemicals subject to SECTION 313 of title III of the Super fund Amendments and Re authorization Act (SARA) of 1986 and 40 CFR, Part 3727?

No

Do any of the chemicals have an RCRA Hazardous Waste No.?

When discarded in its purchased form, this product meets the criteria of ignitability, and should be managed as a hazardous waste (EPA Hazardous Waste Number D001), (40 CFR 261.20-24).

D.O.T. Shipping name, If any?

Resin Solution

D.O.T. Hazard Class, If any?

Division 3

Identification Number?

NA

Date: New June 20, 1994
Revised August 1, 2001