



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No.: DD0050  
Effective Date: January 23, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Diphenylamine
<b>Chemical Synonyms</b>	N-Phenylbenzeneamine
<b>Formula</b>	(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> NH
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	122-39-4

 <b>NFPA</b> HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	<b>CHEMTREC</b> <b>800-424-9300</b> Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	2	Fire	1	Reactivity	0
	Health	2						
Fire	1							
Reactivity	0							
		<b>HMIS*</b> 0 1 2 3 4						

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Diphenylamine	100%	TWA: 10 mg/m <sup>3</sup>
<b>WARNING!</b>		

**HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	53.84-54.95°C (129-131°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.160
Boiling Point (°F)	301.92°C (576°F)	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	1 mm @ 108°C	Evaporation Rate (=1)	Negligible.
Vapor Density (Air=1)	5.82		
Solubility in Water	Negligible in water.		
Appearance & Odor	Colorless to grayish solid; floral-like odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	153°C (307.40°F)	<b>Flammable Limits in Air % by Volume</b>	Lower	Upper
			Unknown	-----
<b>Extinguisher Media</b>	Carbon dioxide; dry chemical; water spray; foam.			

### SPECIAL FIREFIGHTING PROCEDURES

Do not use high-pressure water stream. Air-borne dust creates an explosive hazard. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

Autoignition Temperature: 634°C (1173.20°F)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard when exposed to heat or flame. Dangerous when heated to decomposition, it emits highly toxic fumes; can react with oxidizing materials.

## SECTION V HEALTH HAZARD DATA

DD0050

<b>Threshold Limited Value</b>	TWA: 10 mg/m <sup>3</sup> (ACGIH 2001). RTECS No. JJ7800000 Toxicity data: OrL-rat: LD50: 1120 mg/kg.
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**Effects of Overexposure** Ingestion: May cause irritation of the digestive tract. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis, rapid heart rate, and chocolate-brown colored blood. Inhalation: May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea and death. May cause irritation to skin and eyes. Prolonged or repeated skin contact may cause dermatitis or sensitization. Danger of cumulative effects. Target organs: Kidneys, central nervous system, liver, red blood cells, bladder.

**Emergency and First Aid Procedures**  
**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	Unstable		<b>Conditions to Avoid</b>	Incompatible materials, light, ignition sources, excess heat. Light sensitive.
	Stable	X		

**Incompatibility (Materials to Avoid)** Oxidizing agents, strong acids, isocyanates, hexachloromelamine, organic anhydrides, aldehydes, trichloromelamine.

**Hazardous Decomposition Products** Nitrogen oxides, carbon oxides.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		
	May Occur	Will Not Occur	
		X	
			Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Use personal protective equipment and adequate ventilation. Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water. Do not allow wash water to reach waterways.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.  
Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** Work in laboratory fume hood. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, smock, apron, eye wash station, wash facilities, proper gloves, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from strong oxidizers. Protect from light. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with eyes, skin and mucous membranes. Do not inhale or ingest. Use with adequate ventilation. Remove and wash contaminated clothing.

<b>Revision No.</b>	8	<b>Date</b>	01/23/07	<b>Approved</b>	James A. Bertsch	<b>Chemical Safety Coordinator</b>	JAB
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