



**ALDON  
CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. DD 50  
Effective Date February 22, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	DIPHENYLAMINE	<div><div><div>1</div><div>2</div><div>0</div></div><div>CHEMTREC 800-424-9300 Day 716-226-6177</div><div>NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2</div><div>HMIS * HIGH EXTREME 3 4</div></div>
Chemical Synonyms	N-Phenylbenzenamine	
Formula	(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> NH	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	122-39-4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Diphenylamine	100%	See Section V.
WARNING! HARMFUL IF SWALLOWED, INHALED OR		
ABSORBED THROUGH SKIN. CAUSES SKIN AND EYE IRRITATION.		

## SECTION III PHYSICAL DATA

Melting Point (°F)	52.5°C (125°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.160 @ 20°C
Boiling Point (°F)	302°C (575.6°F)	Percent Volatile by Volume (%)	Negligible at 70°F
Vapor Pressure (mm Hg)	1 mm @ 108.3°C	Evaporation Rate (=1)	Data not listed.
Vapor Density (Air=1)	5.82		
Solubility in Water	Insoluble.		
Appearance & Odor	Very pale, tan crystalline flakes which darken on storage; amine odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	150°C (302°F) (cc)	Flammable Limits in Air % by Volume	Lower	Upper
		Unknown	-----	-----
Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); 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: 635°C (1175°F) Fire point.

### 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.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA

DD 50

### Threshold Limited Value

TWA: 10 mg/m<sup>3</sup> (ACGIH 1992-93). RTECS No. JJ7800000  
Toxicity data: Ori-rat LDLo 3000 mg/kg; LD50 (rats) > 1.5 g/Kg.

### Effects of Overexposure

Target organs affected: Central nervous system, cardiovascular system. May cause irritation to skin, eyes and mucous membranes. Overexposure can cause methemoglobinemia and red blood cell damage. (Aniline-Intoxication may occur from inhalation, ingestion, or cutaneous absorption. Serious poisoning may result from ingestion 0.25 mL.)

### Emergency and First Aid Procedures

**SKIN:** Flush thoroughly with water, then wash with mild soap and water.  
**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting. Repeat until vomit fluid is clear. Call physician immediately. Never give anything by mouth to an unconscious person.  
**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate 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

Stability	Unstable	Conditions to Avoid	Exposure to light, excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizers, acids, alkalies.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce Aniline, carbon dioxide and/or carbon monoxide and oxides of nitrogen (NO <sub>x</sub> ).
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Hazardous Polymerization	Conditions to Avoid
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.
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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.
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## 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.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
			No.
			No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, wash facilities, proper gloves, ventilation hood.
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## 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.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with eyes, skin and mucous membranes. Do not inhale or ingest. Use with adequate ventilation. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 2/22/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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