





# Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>1</td></tr></table>	Health Hazard	2	Fire Hazard	1	Reactivity	1	<div></div> <div>See Section 15.</div>
Health Hazard	2							
Fire Hazard	1							
Reactivity	1							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	<b>p-Dimethylaminoazobenzene</b>	Catalog Number(s). D2287
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	CAS# 60-11-7
Commercial Name(s)	Not available.	RTECS BX7350000
Synonym	Methyl Yellow; Butter Yellow; C.I. Solvent Yellow 2; 4-N,N-Dimethylamino)azobenzene; 4-(Phenylazo)-N,N-dimethylaniline; 4-Dimethylaminoazobenzene; 4-Dimethylaminoazobenzol; 4-Dimethylaminophenylazobenzene; Atu Fast Yellow R; Azobenzene, p-dimethylamino-; Benzenamine, N,N-dimethyl-4(phenylazo)-; Benzeneazodimethylaniline; Brilliant Fast Oil Yellow; Brilliant Fast Spirit Yellow; Brilliant Fast Yellow; Dimethy Yellow N,N-dimethylaniline; Fast Yellow; Fat Yellow A; Fat Yellow ES Fat Yellow R; Grasal Brilliant Yellow; Oil Yellow 20; N,N-Dimethyl-4-phenylazo)benzamine; N,N-Dimethyl-4-(phenylazo)benzenamine; N,N-Dimethyl-p-aminoazobenzene; N,N-Dimethyl azoaniline; N,N-Dimethyl-p-phenylazoaniline	TSCA TSCA 8(b) inventory: p-Dimethylaminoazobenzene
Chemical Name	Aniline, N,N-dimethyl-p-phenylazo-	CI# Not available.
Chemical Family	Not available.	<b>IN CASE OF EMERGENCY</b> <a href="tel:8004249300">CHEMTREC (24hr) 800-424-9300</a>  CALL (310) 516-8000
Chemical Formula	C14-H15-N3	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
		Exposure Limits			
Name	CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) {p-}Dimethylaminoazobenzene	60-11-7				100
<b>Toxicological Data on Ingredients</b> <b>p-Dimethylaminoazobenzene:</b> ORAL (LD50): Acute: 200 mg/kg [Rat]. 300 mg/kg [Mouse].					

Continued on Next Page

### Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Severe over-exposure can result in death.
<b>Potential Chronic Health Effects</b>	<p><b>CARCINOGENIC EFFECTS:</b> Classified as cancer-suspect agent by OSHA. Classified as potential occupational carcinogen by NIOSH. Classified 2B (Possible for human.) by IARC. Classified as reasonably anticipated to be a human carcinogen by NTP.</p> <p><b>MUTAGENIC EFFECTS:</b> Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.</p> <p><b>TERATOGENIC EFFECTS:</b> Not available.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Not available.</p> <p>The substance may be toxic to kidneys, liver.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.</p>

### Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Serious Skin Contact</b>	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Serious Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
<b>Ingestion</b>	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Serious Ingestion</b>	Not available.

### Section 5. Fire and Explosion Data

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-Ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...).
<b>Fire Hazards in Presence of Various Substances</b>	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
<b>Explosion Hazards in Presence of Various Substances</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Special Remarks on Fire Hazards</b>	As with most organic solids, fire is possible at elevated temperatures
<b>Special Remarks on Explosion Hazards</b>	Not available.

Continued on Next Page

**Section 6. Accidental Release Measures**

<b>Small Spill</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill</b>	Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

**Section 7. Handling and Storage**

<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits</b>	Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid. (Powdered solid.)	<b>Odor</b>	Not available.
<b>Molecular Weight</b>	225.29 g/mole	<b>Taste</b>	Not available.
<b>pH (1% soln/water)</b>	Not applicable.	<b>Color</b>	Yellow.
<b>Boiling Point</b>	Not available.		
<b>Melting Point</b>	114°C (237.2°F) - 117 C		
<b>Critical Temperature</b>	Not available.		
<b>Specific Gravity</b>	Not available.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not available.		
<b>Volatility</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Water/Oil Dist. Coeff.</b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water, diethyl ether.		
<b>Solubility</b>	Soluble in diethyl ether. Insoluble in cold water, hot water. Soluble in petroleum ether, benzene, alcohol, mineral acids, oils, CHCl <sub>3</sub>		

**Section 10. Stability and Reactivity Data**

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids.
Corrosivity	Not available.
Special Remarks on Reactivity	Also incompatible with acid anhydrides
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.


**Section 11. Toxicological Information**

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 200 mg/kg [Rat].
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS:</b> Classified + (Proven.) by OSHA+ (Proven.) by NIOSH. Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence.) by NTP. <b>MUTAGENIC EFFECTS:</b> Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer. May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. Can cause rash and burning feeling on contact Eyes: Causes eye irritation. Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Symptoms may include coughing, and wheezing, dyspnea. Other symptoms may include bloody sputum, and bronchial secretions. Ingestion: Harmful if swallowed. May cause digestive tract disturbances. May affect respiration (dyspnea, cyanosis). May form methemoglobin which in sufficient concentration causes cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the liver (enlarged liver, liver dysfunction), and kidneys (kidney dysfunction, frequent urination, hematuria, dysuria), blood, and may also cause cancer (kidney and liver tumors) Skin: Prolonged or repeated skin contact may cause dermatitis.

**Section 12. Ecological Information**

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

**Continued on Next Page**

<b>p-Dimethylaminoazobenzene</b>		<b>Page Number: 5</b>
<b>Special Remarks on the Products of Biodegradation</b>	Not available.	
<b>Section 13. Disposal Considerations</b>		
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
<b>Section 14. Transport Information</b>		
<b>DOT Classification</b>	CLASS 6.1: Poisonous material.	
<b>Identification</b>	: Toxic solid, organic, n.o.s.(p-dimethylaminoazobenzene) UNNA: 2811 PG: III	
<b>Special Provisions for Transport</b>	Not available.	
<b>DOT (Pictograms)</b>		
<b>Section 15. Other Regulatory Information and Pictograms</b>		
<b>Federal and State Regulations</b>	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: p-Dimethylaminoazobenzene</p> <p>California prop. 65 (no significant risk level): p-Dimethylaminoazobenzene: 0.0002 mg/day (value)</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: p-Dimethylaminoazobenzene</p> <p>Connecticut carcinogen reporting list.: p-Dimethylaminoazobenzene</p> <p>Connecticut hazardous material survey.: p-Dimethylaminoazobenzene</p> <p>Illinois toxic substances disclosure to employee act: p-Dimethylaminoazobenzene</p> <p>Illinois chemical safety act: p-Dimethylaminoazobenzene</p> <p>New York release reporting list: p-Dimethylaminoazobenzene</p> <p>Minnesota: p-Dimethylaminoazobenzene</p> <p>Massachusetts RTK: p-Dimethylaminoazobenzene</p> <p>Massachusetts spill list: p-Dimethylaminoazobenzene</p> <p>New Jersey: p-Dimethylaminoazobenzene</p> <p>New Jersey spill list: p-Dimethylaminoazobenzene</p> <p>Louisiana spill reporting: p-Dimethylaminoazobenzene</p> <p>California Director's List of Hazardous Substances: p-Dimethylaminoazobenzene</p> <p>TSCA 8(b) inventory: p-Dimethylaminoazobenzene</p> <p>SARA 313 toxic chemical notification and release reporting: p-Dimethylaminoazobenzene</p> <p>CERCLA: Hazardous substances.: p-Dimethylaminoazobenzene: 10 lbs. (4.536 kg)</p>	
<b>California Proposition 65 Warnings</b>	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: p-Dimethylaminoazobenzene</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.</p>	
<b>Other Regulations</b>	<p>OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).</p> <p>EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.</p>	
<b>Other Classifications</b>	<b>WHMIS (Canada)</b>	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
	<b>DSCL (EEC)</b>	<div>R25- Toxic if swallowed. R36/38- Irritating to eyes and skin. R45- May cause cancer.</div> <div>S28- After contact with skin, wash immediately with plenty of water. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</div>
<b>Continued on Next Page</b>		

**HMIS (U.S.A.)**

Health Hazard	2
Fire Hazard	1
Reactivity	1
Personal Protection	E

**National Fire Protection Association (U.S.A.)**

Health



Flammability

Reactivity

Specific hazard

**WHMIS (Canada)  
(Pictograms)**



**DSCL (Europe)  
(Pictograms)**



**TDG (Canada)  
(Pictograms)**



**ADR (Europe)  
(Pictograms)**



**Protective Equipment**



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

**Section 16. Other Information****MSDS Code** M4055**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

Printed 9/12/2006.

CALL (310) 516-8000

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*