Diphenylamine

CAR()LINA ww.carolina.co

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Diphenylamine Science education applications N-Phenylbenzeneamine, N,N-Diphenylamine, N-Phenylaniline, Anilinobenzene Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Section 2



Toxic if swallowed, in contact with skin or if inhaled. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Inhalation Vapor Category 3, Acute Toxicity - Dermal Category 3, Acute Toxicity - Oral Category 3

Acute Toxicity Inhalation Gas Contains Acute Toxicity Inhalation Dust/Mist Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

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Section 3	Composition / Information on Ingred	lients
<u>Chemical Name</u> Diphenylamine	CAS # 122-39-4	<u>%</u> 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

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Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
	Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Ingestion:

Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection: Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide, Nitrogen containing gases, Phenol

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Exposure to the spilled material may be severely irritating or toxic. Follow personal protective Released or Spilled: equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Section 7 Handling and Storage Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a wellventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a Storage: cool, well-ventilated place. Storage Code: Blue - Toxic. Store separately in a secured area. Section 8 Protection Information OSHA PEL **ACGIH** (TWA) (STEL) Chemical Name (TWA) (STEL) Diphenylamine 10 mg/m3 TWA N/A N/A N/A **Control Parameters Engineering Measures:** Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure. Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower. **Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirator Type(s): Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available. **Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Gloves: Nitrile Section 9 Physical Data

Formula: C12H11N	Vapor Pressure: 1 mm @ 108.3 C
Molecular Weight: 169.23	Evaporation Rate (BuAc=1): N/A
Appearance: Off-white to tan Solid	Vapor Density (Air=1): 5.82
Odor: Moderate Pleasant, Floral	Specific Gravity: 1.16
Odor Threshold: No data available	Solubility in Water: Practically Insoluble
pH: No data available	Log Pow (calculated): 3.5
Melting Point: 53 C	Autoignition Temperature: No data available
Boiling Point: 302 C	Decomposition Temperature: No data available
Flash Point: 153 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10

Reactivity: **Chemical Stability:**

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions.

Conditions to Avoid: Incompatible Materials Hazardous Decompos Hazardous Polymeriza	ition Products:	sparks, open flames, o Strong oxidizing agent	or other sources of ignitions	his combustible material in combination with tion. lioxide, Carbon monoxide			
Section 11		Toxici	ty Data				
Routes of Entry Symptoms (Acute):		stion, and Skin contact. piratory disorders, Meth	nemoglobinemia, Depre	ssed Activity, Tachyca	ardia, urinary		
Delayed Effects:	No data available						
Acute Toxicity: Chemical Name Diphenylamine		CAS Number 122-39-4	Oral LD50 Oral LD50 GUINEA PIG 300 mg/kg Oral LD50 Mouse 1230 mg/kg Oral LD50 Rat 1120 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined		
Carcinogenicity: Chemical Name Diphenylamine		CAS Number 122-39-4	IARC Not listed	NTP Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. Evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. Blood, Cardiovascular system, Bladder Blood						
Section 12 Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	This ma Adsorbs Bioconc Does no	ecological hazard. This terial is expected to hav	cological Data product may be toxic to re only slight mobility in	plants and/or wildlife			
Chemical Name Diphenylamine	CAS NumberEco Toxicity122-39-4Aquatic EC50 (48h) Daphnia 1.69 - 2.46 MG/L 72 HR EC50 SCENEDESMUS SUBSPICATUS 1.5 MG/L						
Section 13		Disp	osal Informati	on			
Disposal Methods: Waste Disposal Code(with all applicable Fede te disposer (TSD) to as		egulations. Always		
Section 14	Transport Information						
Ground - DOT Proper Not regulated for transp			Air - IATA Proper S Not regulated for air				

Section 15		Regulatory Information				
TSCA Status:	All comp	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Diphenylamine	122-39-4	Diphenylamin e	No	No	No	No

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health