Material Safety Data Sheet Diphenylamine, reagent acs

ACC# 95570

Section 1 - Chemical Product and Company Identification

MSDS Name: Diphenylamine, reagent acs Catalog Numbers: AC150740000, AC150740010, AC150740050, AC221920000, AC221921000, AC221925000, AC423650000, AC423650050, AC423651000, AC423655000, O2611-100, O2611-500 Synonyms: N-Phenylamiline; Anilinobenzene; N-Phenylbenzeneamine; DPA Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100

Emergency Number: 201-796-7100 **For CHEMTREC assistance, call:** 800-424-9300 **For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
122-39-4	Diphenylamine, reagent ACS	100.0	204-539-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless to grayish solid.

Warning! Harmful if swallowed, inhaled, or absorbed through the skin. May cause allergic skin reaction. May cause eye, skin, and respiratory tract irritation. May be absorbed through intact skin. May cause methemoglobinemia. Light sensitive. May cause liver and kidney damage.

Target Organs: Kidneys, central nervous system, liver, red blood cells, bladder.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion: May cause irritation of the digestive tract. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood. May cause effects similar to those of acute inhalation. Overexposure may cause methemoglobinemia.

Inhalation: Inhalation of vapor may cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death. May cause adverse central nervous system effects including headache, convulsions, and possible death. May cause bladder injury and hypertension.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Adverse reproductive effects have been reported in animals. There is a danger of cumulative effects.

Section 4 - First Aid Measures

Eyes: Get medical aid. Immediately flush eyes with plenty of water for at I east 15 minutes.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Absorption of this product into the body may cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Moderate degrees of cyanosis need to be treated only by supportive measures: bed rest and oxygen inhalation. For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood. Cleansing of the entire contaminated area of the body is of utmost importance.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Flash Point: 153 deg C (307.40 deg F)
Autoignition Temperature: 634 deg C (1,173.20 deg F)
Explosion Limits, Lower:Not available.
Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Store protected from light. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Do not store in direct sunlight. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs

OSHA Vacated PELs: Diphenylamine, reagent ACS: 10 mg/m3 TWA

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid Appearance: colorless to grayish Odor: floral-like pH: Not available. Vapor Pressure: 1 mm Hg @ 108 deg C Vapor Density: 5.82 Evaporation Rate:Negligible. Viscosity: Not available. Boiling Point: 302.2 deg C Freezing/Melting Point:53.9 - 55 deg C Decomposition Temperature:Not available. Solubility: Negligible in water. Specific Gravity/Density:1.160 Molecular Formula:C12H11N Molecular Weight:169.0837

Section 10 - Stability and Reactivity

Chemical Stability: Stable. Light sensitive.

Conditions to Avoid: Incompatible materials, light, ignition sources, excess heat.

Incompatibilities with Other Materials: Oxidizing agents, strong acids, isocyanates, hexachloromelamine, organic anhydrides, aldehydes, trichloromelamine.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide. **Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 122-39-4: JJ7800000 LD50/LC50: CAS# 122-39-4: Oral, mouse: LD50 = 1230 mg/kg; Oral, rat: LD50 = 1120 mg/kg;

Carcinogenicity: CAS# 122-39-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Section 12 - Ecological Information

Ecotoxicity: Bacteria: Phytobacterium phosphoreum: EC50 =4.77 mg/L; 5,15,30 minutes; Microtox test

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG	
Shipping Name:	TOXIC SOLIDS, ORGANIC, N.O.S.	TOXIC SOLIDS, ORGANIC, N.O.S. (DIPHENYLAMINE)	
Hazard Class:	6.1	6.1	
UN Number:	UN2811	UN2811	
Packing Group:	III	III	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 122-39-4 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

CAS# 122-39-4: 40 CFR 799.5115

Section 12b

CAS# 122-39-4: Section 4, 1 % de minimus concentration

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 122-39-4: immediate, delayed.

Section 313

This material contains Diphenylamine, reagent ACS (CAS# 122-39-4, 100.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 122-39-4 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

ΤN

Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Safety Phrases:

S 28 After contact with skin, wash immediately with...

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardou s waste.

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

WGK (Water Danger/Protection)

CAS# 122-39-4: 3

Canada - DSL/NDSL

CAS# 122-39-4 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 122-39-4 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 6/16/1999 **Revision #6 Date:** 2/18/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.