

CODING FORMS FOR SRC INDEXING

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Submitting Organization	ICI AMERS INC		
Contractor			
Document Title	INITIAL SUBMISSION: MATERIAL SAFETY DATA SHEET ON DIPHENYLAMINE WITH COVER LETTER DATED 11/12/84		
Chemical Category	DIPHENYLAMINE		

IR-433A

#111684(2)



ICI Americas Inc.

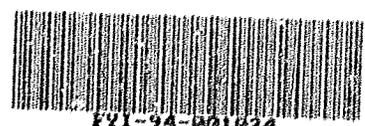
**FYI-0794-001024**

Health &  
Environmental  
Affairs

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November 12, 1984

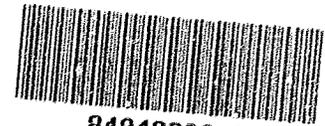
Mr. Dana L. Cazzulino  
Dynamac Corporation  
The Dynamac Building  
11140 Rockville Pike  
Rockville, MD 20852



FYI-94-001024  
INIT 07/14/94

Dear Mr. Cazzulino:

Subject: Diphenylamine



84940008124

This letter is in response to your letter of October 26, 1984. Enclosed is a copy of our current Material Safety Data Sheet. We cannot respond to your other questions.

Sincerely yours,

*R. L. Schauer*

R. L. Schauer, Ph.D.  
Manager, Product Integrity

RLS/lss/2868k  
Attachment

cc: S. M. Foerster

94 JUL 14 AM 9:13

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OPT CSIC

MATERIAL SAFETY DATA SHEET

004C2



ICI Americas Inc.

Wilmington, Delaware 19807

Phone (302) 676-3000 (24 hours)

Form No.: M3719

Date: 12/19/81

SECTION 1 NAME & PRODUCT

Material name:

Diphenylamine (DPA, N-Phenylaniline)

Formula of primary component(s):

$C_6H_5-NH-C_6H_5$  CAS No. 122-39-4

SECTION 2 INGREDIENTS

Diphenylamine

4-Aminodiphenyl impurity less than 20 ppm

(4-Aminodiphenyl is recognized to have carcinogenic potential with no assigned TLV.)

%

100

TLV (ACGIH)

10 mg/m<sup>3</sup>

(not specification values)

SECTION 3 PHYSICAL DATA

Melting point: 127.2°F

Boiling point: 575°F

Vapor pressure (mmHg at 20°C): 1 at 109°C

Vapor density (air = 1): Not applicable

Solubility in water: Insoluble

Specific gravity: 1.16

% Volatile by volume: No data

Appearance and odor: Pale yellow chips or flakes

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method):

307°F method unknown.

Flammable limits (STP):

No data.

Extinguishing media:

Water fog, foam, carbon dioxide, dry chemical, Halon 1211.

Special fire fighting protective equipment:

Use self-contained breathing apparatus.

Unusual fire and explosion hazards:

Highly toxic decomposition vapors. Product will burn if ignited. Dust can form flammable clouds in air.

SECTION 5 REACTIVITY DATA

Stability:

Stable under normal conditions.

Incompatibility (materials to avoid):

Strong oxidizing materials.

MATERIAL SAFETY DATA SHEET (continued)

Diphenylamine

SECTION 5 REACTIVITY DATA (continued)

Hazardous decomposition products:

Thermal decomposition: highly toxic vapors.

Hazardous polymerization:

Will not occur.

SECTION 6 HEALTH HAZARD DATA

Special comments:

4-Aminodiphenyl is present as an impurity of less than 20 ppm. 4-aminodiphenyl exposure is associated with a high incidence of bladder cancer in humans; in animals it has produced bladder and liver tumors.

Oral ingestion:

Rat acute oral LD<sub>50</sub>: 2.7 g/kg.

Eye contact:

Slight irritant.

Skin contact:

Slight irritant.

Skin absorption:

Not readily absorbed.

Inhalation (TIV or suggested control figure):

TIV 10 mg/m<sup>3</sup>.

Effects of overexposure:

Occasional dermatitis has been reported.

First aid procedures:

Eyes: Flush with water and treat symptomatically.

Skin: Wash off material with soap and water. If redness, itching or a burning sensation develops, get medical attention.

Ingestion: Treat symptomatically.

Inhalation: Treat symptomatically.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Sweep up, taking care to avoid creating dust clouds, or mix with a moist absorbent and shovel into a waste container. Wear eye, skin, and respiratory protection during cleanup. Wash away any residue with plenty of water.

Disposal method:

Dispose of waste material as a RCRA non-hazardous waste (40 CFR 261).

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SECTION 8 SPECIAL PROTECTION INFORMATION

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Ventilation:

Provide local exhaust to maintain concentration below TLV.

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Respiratory protection (specify type):

Not normally needed. If necessary, use MSHA-NIOSH approved respirator for dusts of substances with TLV greater than 0.05 mg/m<sup>3</sup>.

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Protective clothing:

Rubber gloves.

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Eye protection:

Safety glasses with side shields.

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Other protective equipment:

None.

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SECTION 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

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Precautions to be taken in handling or storing:

Store in dry area out of light. Keep containers closed. Avoid dust accumulation. Electrical equipment designed for hazardous dust areas may be required.

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The information herein is given in good faith  
but no warranty, express or implied, is made.