

## 1. Product and Company Identification

**Product Code:** X006045

**Product Name:** DAB (Diaminobenzidine)

**Company Name:** Alpha-Tec Systems, Inc.  
1311 SE Cardinal Ct Suite 170  
Vancouver, WA 98683

**Phone Number:** 1 (360)260-2779

**Web site address:** Alphatecsystems.com

**Email address:** Regulatory@Alphatecsystems.com

**Emergency Contact:** INFOTRAC  
International 00-1- (352)323-3500

**Information:** North America 1 (800)535-5053

**Intended Use:** For Laboratory Use Only

**Product List**

## 2. Hazards Identification

**Germ Cell Mutagenicity, Category 2**  
**Carcinogenicity, Category 1B**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H341 - Suspected of causing genetic defects.  
H350 - May cause cancer .

**GHS Precautionary Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P308+313 - IF exposed or concerned: Get medical attention/advice.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
P501 - Dispose of contents/container to ...

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
91-95-2	3,3'-Diaminobenzidine {3,3',4,4'-Biphenyltetraimine}	<=100.0 %

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

- In Case of Skin Contact:** Take off contaminated clothing and shoes immediately. Wash with plenty of soap and water.
- In Case of Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
- In Case of Ingestion:** IF SWALLOWED: immediately drink water (two glasses at most). Consult a physician.

### 5. Fire Fighting Measures

- Flash Point:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.
- Fire Fighting Instructions:** Wear appropriate protective clothing to prevent contact with skin and eyes. Wear self contained breathing apparatus for fire fighting if necessary.
- Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** Nitrogen oxides, Hydrogen chloride gas, Hazardous decomposition products formed under fire conditions. Carbon oxides.

### 6. Accidental Release Measures

- Environmental Precautions:** Dispose of product in accordance with all federal, state, and local regulations. Do not empty into drains.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Control runoff and isolate discharged material for proper disposal.

### 7. Handling and Storage

- Precautions To Be Taken in Handling:** Avoid formation of dust and aerosols. Good laboratory practices, safety procedures, and normal precautions in handling and storage of all products are recommended to provide adequate protection to the skilled laboratory professional.
- Precautions To Be Taken in Storing:** Store in a tightly closed container. Store at 2 - 8°C.

### 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
91-95-2	3,3'-Diaminobenzidine {3,3',4,4'-Biphenyltetraimine}	No data.	No data.	No data.

<b>Respiratory Equipment (Specify Type):</b>	Good laboratory practices should be followed which includes preventing eye contact and minimizing skin contact and inhalation.
<b>Eye Protection:</b>	Safety glasses.
<b>Protective Gloves:</b>	Handle with gloves.
<b>Other Protective Clothing:</b>	Clothes to prevent skin contact.
<b>Engineering Controls (Ventilation etc.):</b>	No data available.

### 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas    [ X ] Liquid    [ ] Solid
<b>Appearance and Odor:</b>	Appearance: Brown.
<b>pH:</b>	No data.
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	No data.
<b>Flash Point:</b>	No data.
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive Limits:</b>	LEL: No data.                      UEL: No data.
<b>Vapor Pressure:</b>	No data.
<b>Vapor Density (vs. Air=1):</b>	No data.
<b>Specific Gravity (Water=1):</b>	No data.
<b>Solubility in Water:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	No data.
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.
 <b>Information with regard to primary physical hazard:</b>	

### 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ]    Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	No data available.
<b>Incompatibility - Materials To Avoid:</b>	No data available.
<b>Hazardous Decomposition or Byproducts:</b>	No data available.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]    Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

### 11. Toxicological Information

**Toxicological Information:** No data available.  
**Carcinogenicity/Other Information:** NTP: Suspect carcinogen.  
**Carcinogenicity:** NTP? No      IARC Monographs? No      OSHA Regulated? No

### 12. Ecological Information

**General Ecological Information:** Do not empty into drains.

### 13. Disposal Considerations

**Waste Disposal Method:** Dispose of product in accordance with all federal, state, and local regulations.

### 14. Transport Information

**GHS Classification:** Germ Cell Mutagenicity, Category 2 - Warning! Suspected of causing genetic defects  
 Carcinogenicity, Category 1B - Danger! May cause cancer

**LAND TRANSPORT (US DOT):**  
 DOT Proper Shipping Name: N/A.  
 DOT Hazard Class:  
 UN/NA Number:

**LAND TRANSPORT (Canadian TDG):**  
 TDG Shipping Name: N/A.  
 UN Number:  
 Hazard Class: **TDG Classification:**

### 15. Regulatory Information

### 16. Other Information

**Revision Date:** 03/19/2024  
**Preparer Name:** AFrontella

**Additional Information About This Product:** No data available.

**Document & Change Control Number** SDS0297.A.

**Company Policy or Disclaimer:** Disclaimer  
 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.