

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

Product Code: X006045
Product Name: DAB (Diaminobenzidine)
Company Name: CalibreScientific US, Inc. **Phone Number:** 1 (360)260-2779
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 Vancouver, WA 98683
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Email address: Regulatory@calibrescientific.com
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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:

Explosive Limits: LEL: UEL:

Autoignition Pt:

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:

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}			

Respiratory Equipment (Specify Type): Good laboratory practices should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Eye Protection: Safety glasses.

Protective Gloves: Handle with gloves.

Other Protective Clothing: Clothes to prevent skin contact.

Engineering Controls (Ventilation etc.):

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Brown.

pH:

Melting Point:

Boiling Point: / 0.0 mm Hg

Flash Point:

Evaporation Rate:

Flammability (solid, gas):

Explosive Limits: LEL: UEL:

Vapor Pressure:

Vapor Density (vs. Air=1):

Specific Gravity (Water=1):

Solubility in Water:

Saturated Vapor Concentration:

Octanol/Water Partition Coefficient:

Autoignition Pt:

Decomposition Temperature:

Viscosity:

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability:

Incompatibility - Materials To Avoid:

Hazardous Decomposition or Byproducts:

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions:

11. Toxicological Information

Toxicological Information:

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

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
91-95-2	3,3'-Diaminobenzidine {3,3',4,4'-Biphenyltetraimine}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
91-95-2	3,3'-Diaminobenzidine {3,3',4,4'-Biphenyltetraimine}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

16. Other Information

Revision Date: 02/21/2025 **Previous revision:** 03/19/2024

Preparer Name: AFrontella

Additional Information About This Product:

Document & Change Control Number SDS0297.B.

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.