SAFETY DATA SHEET



Order Customer Number Number

Identification of the substance/preparation and of the company/undertaking

Product name : DAB Substrate Buffer

Catalog #

: 281753

Chemical formula : N/A

Supplier

: Manufactured by EMD Biosciences, Inc.

10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

Synonym : Not available.

Emergency telephone number

Call Chemtrec®

(800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
DAB Substrate Buffer	N/A	Not available.	-	-

3. Hazards identification

Physical/chemical hazards : Not applicable

First-aid measures

First-Aid measures

Ingestion

Eye Contact

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Get medical attention.

Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire-fighting measures

Flammability of the Product

Extinguishing Media

: May be combustible at high temperature.

: SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition :

products

Suitable

These products are nitrogen oxides (NO, NO2...).

Special fire-fighting procedures :

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

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Accidental release measures 6.

Personal precautions Small Spill and Leak : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Absorb with an inert material and put the spilled material in an appropriate waste dispose

Large Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and storage

Handling

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F).

Packaging materials Recommended use

: Use original container.

Exposure controls/personal protection 8.

Engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the

Hygiene measures

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

DAB Substrate Buffer

Occupational Exposure Limits

Not available.

Personal protective equipment

: Lab coat.

Protective Clothing

Skin and body

(Pictograms)

Eyes

Safety glasses.



9. Physical and chemical properties

Physical state

Color

: Liquid.

Molecular Weight

Not available.

Not available.

Solubility

Not available.

Flash point

Not available.

Explosive properties

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Stability and reactivity

Stability

The product is stable.

Conditions to avoid

: Not available.

Hazardous Decomposition Products

: These products are nitrogen oxides (NO, NO2...).

Toxicological information

RTECS #

: N/A

Local effects

Skin irritation

Not available.

Acute toxicity

LD50: Not available. LC50: Not available.

Chronic toxicity

Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on

Humans

Not available.

No specific information is available in our database regarding the other toxic effects of this material for

humans.

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Not available.

To the best of our knowledge, the toxicological properties of this product have not been thoroughly

investigated.

Carcinogenic effects Not available. **Mutagenic effects** Not available. Reproduction toxicity Not available. **Teratogenic effects** : Not available.

Ecological information

Ecotoxicity

: Not available.

Toxicity of the Products of **Biodegradation**

: The product itself and its products of degradation are not toxic.

Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

Sea

IMDG Class : Not controlled under IMDG.

IATA-DGR Class

: Not controlled under IATA.

Special Provisions for

Transport

<u>Air</u>

Not applicable.

15. Regulatory information

EU Regulations

Risk Phrases : This product is not classified according to the EU regulations.

U.S. Federal Regulations

TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification Not controlled under the HCS (United States).

State Regulations

WHMIS (Canada) : Not controlled under WHMIS (Canada).

No products were found.

16. Other information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Notice to Reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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