

Material Safety Data Sheet

Control Number: 907-005

DAB Substrate Buffer

August 17, 2017

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1. Product and Company Identification

Product(s)	Betazoid DAB Substrate Buffer (DS900, BRR900B, BRA900B) DAB Substrate Buffer (DS854, BRR854, BRA854) DAB Buffer (ORI6010, ORR6010, ORI6055, ORR6055) intelliPATH™ DAB Buffer (IPBF5009, IPR5009, IPA5009)
Related Product Kit	Betazoid DAB Chromogen Kit (BDB2004, BRA2004A, BRR2004A) DAB Chromogen Kit (DB801, BRA801, BRR801) Cardassian DAB Chromogen Kit (DBC859, BRR859, BRA859) intelliPATH™ DAB Chromogen Kit (IPK5010, IPR5010, IPA5010) intelliPATH™ Universal HRP Detection Kit (IPK5003, IPR5003, IPA5003, IPK5011, IPR5011, IPA5011) MACH 4 Universal HRP-Polymer Detection System (BRI4012) DAB Chromogen Kit (ORI6011K, ORR6011K) ONCORE DAB Chromogen (ORI6056K, ORR6056K)
Intended Use & Restrictions	Immunohistochemistry reagent intended for use by professional laboratory personnel that have been properly trained in its use.
Company Information	Biocare Medical, LLC 60 Berry Drive Pacheco, CA 94553 United States Tel: +1 800-799-9499 (7AM–5PM, PST, Mon-Fri) Fax: +1 925-603-8080 Web: www.biocare.net
24-Hour Emergency Contact	CHEMTREC +1 800-424-9300 (USA and Canada only) +1 703-527-3887 (all other countries)

2. Hazards Identification

Emergency Overview	This product has been classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients. Product has little to no hazards for Emergency Responders if spilled and has no unusual hazard if in a fire.
OSHA Hazards	Not hazardous While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
GHS Classification Signal words, Symbol, Hazard & Precautionary Statements	Not hazardous

Potential Health Effects

Skin Contact	May be harmful if exposed to skin. May cause skin irritation, itching, redness or inflammation.
Eye Contact	May be harmful if exposed to eyes. May cause eye irritation, watering eyes, stinging or burning sensation.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation, headache, dizziness,

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nausea or coughing.

Ingestion May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting.

See Section 11: Toxicological Information for additional information.

Environmental Effects None identified.

See Section 12: Ecological Information for additional information.

3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
Hydrogen peroxide	Not Applicable	<0.1%	7722-84-1

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

4. First Aid Measures

General Advice Avoid further exposure to product. Consult a physician.

In case of skin contact Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

In case of eye contact Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

If inhaled Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

If swallowed If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguisher media appropriate for surrounding fire.

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Special Exposure Hazards Avoid inhalation of fumes, which may be toxic or irritating.

6. Accidental Release Measures

Personal Precautions Use of personal protective equipment is recommended as described in Section 8. Isolate hazard area and deny entry to unprotected personnel.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Methods for containment and clean up Small spills may be contained and cleaned-up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

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7. Handling and Storage

Precautions for Safe Handling Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.

Conditions for Safe Storage Store at temperature indicated on label. Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits Hydrogen peroxide: 1 ppm (TWA) ACGIH Threshold Limit Value (TLV), USA

Engineering Controls No special controls needed.

Personal Protective Equipment

Eye Protection Use splash-proof chemical safety goggles.

Skin Protection Use chemically resistant gloves and a lab coat with sleeves.

Respiratory Protection Exceeding exposure limits is unlikely during normal usage. However, if irritating vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.

General Hygiene Measures Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance Clear, colorless solution

Odor Not determined

pH (as supplied) Not determined

Melting point Not determined

Boiling point Not determined

Flash point Not determined

Flammability Not determined

Lower explosion limit Not determined

Upper explosion limit Not determined

Vapor pressure Not determined

Vapor density Not determined

Specific gravity Not determined

Solubility (in water) Soluble

Partition coefficient (n-octanol/water) Not determined

Auto-ignition temperature Not determined

Decomposition Temperature Not determined

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10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Conditions to avoid	Keep away from incompatible materials.
Materials to avoid	Reducing agents, acid chlorides, acid anhydrides, metals.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.
Possibility of hazardous reactions	None identified.

11. Toxicological Information

Acute dose effects	No data available
Repeat dose effects	No data available
Skin irritation	No data available
Skin and respiratory sensitization	No data available
Eye irritation	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Mutagenicity	No data available
Reproductive effects	No data available
Developmental effects	No data available
Target organ effects	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

12. Ecological Information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulation/accumulation	No data available
Mobility in environmental media	No data available
Other hazardous effects	No data available

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13. Disposal Considerations

Product Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

Contaminated packaging Dispose of as unused product.

14. Transportation Information

Proper shipping name Not applicable

Technical name Not applicable

Hazard class Not applicable

Identification number Not applicable

Packing group Not applicable

DOT (US) Not regulated

IMDG Not regulated

IATA Not regulated

TDG Not regulated

15. Regulatory Information

Inventory Status

United States (TSCA) All components are listed.

Canada (DSL / NDSL) All components are listed.

SARA 302 Components No chemicals in this product are subject to reporting requirements.

SARA 313 Components No components exceed threshold reporting levels.

SARA 311/312 Hazards Hydrogen peroxide: Acute health hazard, Chronic health hazard

California Prop. 65 components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Sources and Suitability The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact with the above product.

Revision Date August 17, 2017
(All SDS's before this date should be discarded.)

Replaces Revision July 25, 2016. This SDS has been updated to reflect current hazard information and product formulations.

Note: Before using this product, please visit the Biocare Medical website at <http://biocare.net> for the current version of this SDS.