



Bioscreen, Inc.
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Material Safety Data Sheet

Bioscreen Inc. supplies Material Safety Data Sheets for products you have purchased. All information is offered gratuitously and in good faith as accurate, but is furnished without guaranty. No claim is made that the information is all-inclusive, and it should be used only as a guide. Bioscreen shall not be held liable for any damage resulting from handling or from contact with the product. This information is for internal use only.

Prepared 5/7/95, updated 7/26/16

Section I: Product Identification

BUFFER of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Water	95 - 99	7732-18-5
Tris buffer	<1	77-86-1

Section III: Physical Data

Appearance and Odor: Clear, colorless solution; Odorless

Boiling Point: >100°C

Vapor Pressure: NA

Vapor Density: about 0.6

Solubility in Water: Complete

Specific Gravity: NA

Evaporation Rate: NA

Volatile Fraction by Weight: about 98%

Section IV: Fire and Explosion Hazard Data

Flash Point: None, noncombustible

Extinguishing Media: Use appropriate agent for surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: None

Section V: Reactivity Data

Incompatibilities: Bases, oxidizing agents

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: Not established

Inhalation: Low hazard for recommended handling. Eyes: No specific hazard known. May cause transient irritation. Skin: Low hazard for recommended handling. Ingestion: Harmful if swallowed.

First Aid Procedures:

Inhalation: If symptomatic, remove to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash after each contact. Get medical attention if symptoms occur.

Ingestion: Drink 1 - 2 glasses of water. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Ventilation: Good ventilation (typically 10 air changes per hour) should be used.

Eye/Skin Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Spill, Leak and Disposal Procedures: Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water. Clean surface thoroughly to remove residual contamination.



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Prepared 5/7/95, updated 7/26/16

Section I: Product Identification

FIXATIVE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Ethanol fixative	NA	64-17-5

Section III: Physical Data

Appearance and Odor: Liquid
Boiling Point: 78 - 80° C
Vapor Pressure: 59.5 hPa at 20.0° C
Vapor Density: NA
Solubility in Water: Completely soluble
Specific Gravity: NA
Evaporation Rate: NA
Volatile Fraction by Weight: about 100%

Section IV: Fire and Explosion Hazard Data

Flash Point: 19.5 °C

Extinguishing Media: Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

Section V: Reactivity Data

Incompatibilities: Oxidizing agents, acids, acid anhydrides, reducing agents, alkali metals, acid chlorides.

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: May be harmful if inhaled, swallowed, or absorbed through skin.

Inhalation: Irritating to mucous membranes and upper respiratory tract.

Eyes: May cause severe eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

First Aid Procedures:

Inhalation: If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Eyes: Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin: Immediately wash skin with soap and copious amounts of water. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Ventilation: Good ventilation (typically 10 air changes per hour) should be used.

Eye/Skin Protection: Wear safety glasses with side shields. Wear rubber gloves. Do not get in eyes, on skin, on clothing.

Storage: Store in a cool dry place. Keep away from heat, sparks, and open flame.

Spill, Leak and Disposal Procedures: Shut off all sources of ignition. Absorb on sand or vermiculite and place in closed containers for disposal. Discharge, treatment, or disposal may be subject to national, state or local laws.



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Prepared 5/7/95, updated 7/26/16

Section I: Product Identification

PEROXIDE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Hydrogen peroxide	<1	7722-84-1
Water	95 - 99	7732-18-5

Section III: Physical Data

Appearance and Odor: Liquid

Boiling Point: >100°C

Vapor Pressure: NA

Vapor Density: 1

Solubility in Water: NA

Specific Gravity: NA

Evaporation Rate: NA

Volatile Fraction by Weight: about 100%

Section IV: Fire and Explosion Hazard Data

Flash Point: None

Extinguishing Media: Water spray.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: None.

Section V: Reactivity Data

Incompatibilities: Organic materials, reducing agents, brass, copper, zinc, nickel, galvanized iron, lead, rust.

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: May be harmful if inhaled, swallowed, or absorbed through skin.

Inhalation: Irritating to mucous membranes and upper respiratory tract.

Eyes: May cause severe eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

First Aid Procedures:

Inhalation: If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Eyes: Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin: Immediately wash skin with copious amounts of water. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Good ventilation (typically 10 air changes per hour) should be used.

Eye/Skin Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Spill, Leak and Disposal Procedures: Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water. Clean surface thoroughly to remove residual contamination.

Storage: Refrigerate.



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Prepared 5/7/95, updated 7/26/16

Section I: Product Identification

DAB of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

Component	Weight Percent	CAS Number
3,3'-diaminobenzidine tetrahydrochloride	<1	C12H14N4
Water	95 - 99	7732-18-5

Section III: Physical Data

Appearance and Odor: Clear amber solution

Boiling Point: 100°C

Vapor Pressure: NA

Vapor Density: 1

Solubility in Water: Dilutable in water

Specific Gravity: NA

Evaporation Rate: NA

Volatile Fraction by Weight: about 100%

Section IV: Fire and Explosion Hazard Data

Flash Point: none

Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Toxic fumes could be emitted when water is evaporated with fire.

Section V: Reactivity Data

Incompatibilities: Strong oxidizing agents and strong bases.

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: May be harmful if inhaled, swallowed, or absorbed through skin.

Inhalation: Irritating to mucous membranes and upper respiratory tract.

Eyes: Avoid all contact. May cause severe eye irritation.

Skin: Avoid all contact. May cause cancer.

Ingestion: May be harmful if swallowed.

First Aid Procedures:

Inhalation: If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Eyes: Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin: Immediately wash skin with copious amounts of water. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Good ventilation (typically 10 air changes per hour) should be used.

Eye/Skin Protection: Wear safety glasses with side shields. Wear rubber gloves. Do not get in eyes, on skin, on clothing.

Storage: Refrigerate.

Spill, Leak and Disposal Procedures: Absorb on sand or vermiculite and place in closed containers for disposal.

Do not allow product to enter storm or sanitary sewers, lakes, rivers, streams or public water supplies. Discharge, treatment, or disposal may be subject to national, state or local laws.

Section VIII: Special Precautions and Comments

Lab experiments have shown mutagenic effects. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.



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Prepared 4/26/04, updated 7/26/16

Section I: Product Identification

PEROXIDASE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

Component	Weight Percent	CAS Number
Water	98	7732-18-5
Peroxidase	<1	9003-99-0

Section III: Physical Data

Appearance and Odor: Slight beige suspension; no odor.

Boiling Point: >100°C

Vapor Pressure: NA

Vapor Density: NA

Specific Gravity: NA

Evaporation Rate: NA

Volatile Fraction by Weight: about 98%

Section IV: Fire and Explosion Hazard Data

Flash Point: None, noncombustible

Extinguishing Media: Use appropriate agent for surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

Section V: Reactivity Data:

Incompatibilities: Strong oxidizing agents, strong bases

Hazardous Polymerization: None

Hazardous combustion or decomposition products: sulfur oxides, ammonia, nitrogen oxides

Section VI: Health Hazard Data

Effects of Overexposure: Not established

Inhalation: Low hazard for recommended handling.

Eyes: May cause irritation.

Skin: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Ingestion: May be harmful if swallowed. May cause nausea, vomiting, diarrhea.

First Aid Procedures:

Inhalation: If symptomatic, remove to fresh air. Get medical attention if symptoms persist.

Eyes: In case of contact, immediately flush eyes with copious amounts of water. Seek medical attention if symptoms occur.

Skin: Wash after each contact. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Ventilation: Good ventilation (typically 10 air changes per hour) should be used.

Eye/Skin Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation. Safety glasses with side shields are recommended in industrial operations involving chemicals. If prolonged or repeated skin contact is necessary, impervious gloves or other protection may be required.

Spill, Leak and Disposal Procedures: Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water. Clean surface thoroughly to remove residual contamination.

Section VIII: Special Precautions and Comments

The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.