

SCOPESCREEN

Material Safety Data Sheet

Disclaimer: Scopescreen Inc., formerly known as BIOSCREEN, 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 guarantee. No claim is made that the information is all-inclusive, and it should be used only as a guide. Scopescreen 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 7/1/94, v2 updated 1/11/20; v3 1/1120

Section I: Product Identification

BUFFER of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

COMPONENT	Weight %	CAS NUMBER
Water	95-99	7732-18-5
Tris Buffer	<1	77-86-1

Section III: Physical Data

Feature	Description
Appearance and Odour	Clear colorless solution; odorless
Boiling Point	<100oC
Vapor Pressure	N/A
Vapor Density	About 0.6
Solubility in Water	Complete
Specific Gravity	N/A
Evaporation Rate	N/A
Volatile Fraction by Weight	About 98%

Section IV: Fire and Explosion Hazard Data

Feature	Description
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

Feature	Description
Incompatibilities	Bases, oxidizing agents
Hazardous Polymerization	None

Section VI: Health Hazard Data

Feature	Description	First Aid Procedure
Effects of Overexposure	Not established.	
Inhalation	Low hazard for recommended handling.	If symptomatic, remove to fresh air. Get medical attention if symptoms persist
Eyes	No specific hazard known. May cause transient irritation.	Any material that contacts the eye should be washed out immediately. Get medical attention if symptoms occur.
Skin	Low hazard for recommended handling.	Wash after each contact. Get medical attention if symptoms occur.
Ingestion	Harmful if swallowed.	Drink 1 - 2 glasses of water. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Feature	Description
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.

/END BUFFER SECTION

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Prepared 7/1/94, v2 updated 1/11/20; v3 1/1120

Section I: Product Identification

FIXATIVE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

COMPONENT	Weight %	CAS NUMBER
Ethanol fixative	N/A	64-17-5

Section III: Physical Data

Feature	Description
Appearance and Odour	Liquid
Boiling Point	78-80oC
Vapor Pressure	59.5 hPa at 20oC
Vapor Density	N/A
Solubility in Water	Completely soluble
Specific Gravity	N/A
Evaporation Rate	N/A
Volatile Fraction by Weight	About 100%

Section IV: Fire and Explosion Hazard Data

Feature	Description
Flash Point	19.5oC
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

Feature	Description
Incompatibilities	Oxidizing agents, acids, acid anhydrides, reducing agents, alkali metals, acid chlorides.
Hazardous polymerisation	None

Section VI: Health Hazard Data

Feature	Description	First Aid Procedure
Effects of Overexposure	May be harmful if inhaled, swallowed, or absorbed through skin.	
Inhalation	Irritating to mucous membranes and upper respiratory tract.	If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Eyes	May cause severe eye irritation.	Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.
Skin	May cause skin irritation.	Immediately wash skin with soap and copious amounts of water. Get medical attention if symptoms occur.
Ingestion	May be harmful if swallowed	Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Feature	Description
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.
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.

/END FIXATIVE SECTION

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Section I: Product Identification

PEROXIDE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

COMPONENT	Weight %	CAS NUMBER
Hydrogen Peroxide	<1	7722-84-1
Water	95-99	7732-18-5

Section III: Physical Data

Feature	Description
Appearance and Odour	Liquid
Boiling Point	>100oC
Vapor Pressure	N/A
Vapor Density	1
Solubility in Water	N/A
Specific Gravity	N/A
Evaporation Rate	N/A
Volatile Fraction by Weight	About 100%

Section IV: Fire and Explosion Hazard Data

Feature	Description
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

Feature	Description
Incompatibilities	Organic materials, reducing agents, brass, copper, zinc, nickel, galvanized iron, lead, rust.
Hazardous polymerization	None

Section VI: Health Hazard Data

Feature	Description	First Aid Procedure
Effects of Overexposure	May be harmful if inhaled, swallowed, or absorbed through skin.	
Inhalation	Irritating to mucous membranes and upper respiratory tract.	If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Eyes	May cause severe eye irritation.	Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.
Skin	May cause skin irritation.	Immediately wash skin with copious amounts of water. Get medical attention if symptoms occur.
Ingestion	May be harmful if swallowed.	Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Feature	Description
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.
Storage	Refrigerate.

/END PEROXIDE SECTION

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Section I: Product Identification

DAB of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

COMPONENT	Weight %	CAS NUMBER
3,3'-diaminobenzidine tetrahydrochloride	<1	C12H14N4
Water	95-99	7732-18-5

Section III: Physical Data

Feature	Description
Appearance and Odour	Clear amber solution
Boiling Point	100oC
Vapor Pressure	N/A
Vapor Density	1
Solubility in Water	Dilutable in water.
Specific Gravity	N/A
Evaporation Rate	N/A
Volatile Fraction by Weight	About 100%

Section IV: Fire and Explosion Hazard Data

Feature	Description
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

Feature	Description
Incompatibilities	Strong oxidizing agents and strong bases.
Hazardous polymerization	None

Section VI: Health Hazard Data

Feature	Description	First Aid Procedure
Effects of Overexposure	May be harmful if inhaled, swallowed, or absorbed through skin.	
Inhalation	Irritating to mucous membranes and upper respiratory tract.	If symptomatic, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist
Eyes	Avoid all contact. May cause severe eye irritation.	Flush with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.
Skin	Avoid all contact. May cause cancer.	Immediately wash skin with copious amounts of water. Get medical attention if symptoms occur.
Ingestion	May be harmful if swallowed.	Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Feature	Description
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	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.

/END DAB SECTION

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Section I: Product Identification

PEROXIDASE of the LeucoScreen™ Cytochemical Stain of Peroxidase

Section II: Hazardous Ingredients

COMPONENT	Weight %	CAS NUMBER
Water	98	7732-18-5
Peroxidase	<1	9003-99-0

Section III: Physical Data

Feature	Description
Appearance and Odour	Slight beige suspension; no odor.
Boiling Point	100oC
Vapor Pressure	N/A
Vapor Density	N/A
Specific Gravity	N/A
Evaporation Rate	N/A
Volatile Fraction by Weight	About 98%

Section IV: Fire and Explosion Hazard Data

Feature	Description
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.

msds-leucoscreen

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Section V: Reactivity Data

Feature	Description
Incompatibilities	Strong oxidizing agents, strong bases.
Hazardous polymerization	None
Hazardous combustion or decomposition products	Sulfur oxides, ammonia, nitrogen oxides

Section VI: Health Hazard Data

Feature	Description	First Aid Procedure
Effects of Overexposure		Not established.
Inhalation	Low hazard for recommended handling.	If symptomatic, remove to fresh air. Get medical attention if symptoms persist
Eyes	May cause irritation.	In case of contact, immediately flush eyes with copious amounts of water. Seek medical attention if symptoms occur.
Skin	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.	Wash after each contact. Get medical attention if symptoms occur.
Ingestion	May be harmful if swallowed. May cause nausea, vomiting, diarrhea.	Wash out mouth with water provided person is conscious. Seek immediate medical attention.

Section VII: Precautions for Safe Handling and Use

Feature	Description
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.

/END PEROXIDASE SECTION