



Bioscreen Inc.
889 Broadway
New York NY 10003
T: 212.260.6692
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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 1/18/93

Section I: Product Identification

WASH of the **AcroScreen™** Acrosin Activity Assay

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Water	95 - 99	7732-18-5
Phosphate Buffered Saline	<1	NA
Sodium Azide	<1	26628-22-8
Sodium Hydroxide	<1	1310-73-2

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: Metals

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.

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. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Section VIII: Special Precautions and Comments

To prevent buildup of explosive metal azides in lead and copper plumbing, product should be discarded into sewerage only if diluted and flushed with large volumes of water. Use copper-free and lead-free drain systems where possible, and flush occasionally with 10% sodium hydroxide.



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Prepared 1/18/93

Section I: Product Identification

SUBSTRATE of the **AcroScreen™** Acrosin Activity Assay

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Dimethyl sulfoxide	99	67-68-5 N-a-
Benzoyl-DL-Arginine	<1	911-77-3
<i>p</i> -Nitroanilide		

Section III: Physical Data

Appearance and Odor: Clear colorless liquid; distinct odor

Boiling Point: >189°C

Melting Point: about 18°C

Vapor Pressure: NA

Vapor Density: NA

Specific Gravity: about 1.101

Volatile Fraction by Weight: about 99%

Section IV: Fire and Explosion Hazard Data

Flash Point: 203°F

Autoignition temperature: 573°F

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, alcohol or polymer 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: Forms explosive mixtures in air. Emits toxic fumes under fire conditions.

Section V: Reactivity Data

Incompatibilities: Acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents. Hazardous combustion or decomposition products: toxic fumes of carbon monoxide and carbon dioxide; sulfur oxides; hydrogen chloride gas

Section VI: Health Hazard Data

Effects of Overexposure: Not established. **Inhalation:** Vapor or mist is irritating to the mucous membranes and upper respiratory tract. May cause allergic respiratory reactions. **Eyes:** Vapor or mist is irritating to the eyes. **Skin:** Causes skin irritation. May cause allergic skin reactions. **Ingestion:** Harmful if swallowed.

First Aid Procedures:

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

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin: Wash with copious amounts of water for at least 15 minutes. 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. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Ventilate area and clean surface thoroughly to remove residual contamination.

Section VIII: Special Precautions and Comments

This product is readily absorbed through the skin. Wash thoroughly after handling. The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.



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Prepared 1/18/93

Section I: Product Identification

DETERGENT of the **AcroScreen™** Acrosin Activity Assay

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Water	95 - 99	7732-18-5
Sodium chloride	<1	7647-14-5
Sodium azide	<1	26628-22-8
Triton X-100	<1	9002-93-1
Sodium hydroxide	<1	1310-73-2

Section III: Physical Data

Appearance and Odor: Clear, colorless solution; Odorless

Boiling Point: >100°C
Vapor Pressure: NA
Vapor Density: NA
Solubility in Water: Complete
Specific Gravity: NA
Evaporation Rate: NA
Volatile Fraction by Weight: about 99%

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: Metals
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: Expected to be a low ingestion hazard.

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. 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. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Section VIII: Special Precautions and Comments

To prevent buildup of explosive metal azides in lead and copper plumbing, reagents should be discarded into sewerage only if diluted and flushed with large volumes of water. Use copper-free and lead-free drain systems where possible, and decontaminate occasionally with 10% sodium hydroxide.



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Prepared 1/18/93

Section I: Product Identification

POSITIVE CONTROL of the **AcroScreen™** Acrosin Activity Assay

Section II: Hazardous Ingredients

<u>Component</u>	<u>Weight Percent</u>	<u>CAS Number</u>
Water	98	7732-18-5
Bromelain	<1	37189-34-7

Section III: Physical Data

Appearance and Odor: White crystals in colorless liquid suspension; slight fruity 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.