



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 5/1/93

Section I: Product Identification

ALCOHOL of the CitricScreen[®] Semen Citric Acid Test

Section II: Hazardous Ingredients

| Component | Weight Percent | CAS No. | UN No. |
|-------------|----------------|---------|--------|
| Isopropanol | 100 | 67-63-0 | 1219 |

Section III: Physical Data

Appearance and Odor: Clear, colorless solution

Boiling Point: 82.4°C

Vapor Pressure: 33 mm @ 20°C

Vapor Density: 2.1

Solubility in Water: NA

Specific Gravity: 0.785

Evaporation Rate: NA

Volatile Fraction by Weight: about 100%

Section IV: Fire and Explosion Hazard Data

Flash Point: 60°F

Autoignition temperature: 860°F

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, halogens, aluminum.

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. Prolonged or repeated exposure causes defatting and dermatitis.

Ingestion: May be harmful if swallowed. Can cause central nervous system depression.

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: Mechanical exhaust required.

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 2/26/93

Section I: Product Identification

FERRIC CHLORIDE of the CitricScreen[®] Semen Citric Acid Test

Section II: Hazardous Ingredients

| Component | Weight Percent | CAS Number |
|-------------------|----------------|------------|
| Ferric Chloride | <1 | 10025-77-1 |
| Hydrochloric Acid | <1 | 7647-01-0 |
| Water | 95 - 99 | 7732-18-5 |

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%

Incompatibilities: Strong oxidizing agents

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: Not established

Inhalation: Low hazard for recommended handling.

Eyes: Causes eye irritation.

Skin: Causes skin irritation.

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 with soap and copious amounts of water 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. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Filter the insolubles and dispose of them as hazardous-waste. Flush solution down drain. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.



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Prepared 2/20/93

Section I: Product Identification

CITRIC ACID STANDARD of the CitricScreen[®] Semen Citric Acid Test

Section II: Hazardous Ingredients

| Component | Weight Percent | CAS Number |
|-------------|----------------|------------|
| Water | 95 - 99 | 7732-18-5 |
| Citric Acid | <1 | 5949-29-1 |

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: Strong oxidizing agents

Hazardous Polymerization: None

Section VI: Health Hazard Data

Effects of Overexposure: Not established

Inhalation: Low hazard for recommended handling.

Eyes: Causes eye irritation.

Skin: Causes skin irritation.

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 with soap and copious amounts of water 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. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Filter the insolubles and dispose of them as hazardous-waste. Flush solution down drain. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.