



## Safety Data Sheet D-Galactose

**Warning:**

### Section 1 - Chemical Product and Company Identification

#### 1.1 Product Identifiers

**Product Name:** D-Galactose  
**Catalog Numbers:** GA6220, GA5220, GA4220, GA3220, GA2220  
**CAS#:** 59-23-4  
**EC#** 200-416-4  
**RTECS#:** LW5490000

#### 1.2 Recommended Use of the Chemical and restrictions of Use

Chemical manufacturing

#### 1.3 Company Identification:

BioSpectra, Inc.  
 100 Majestic Way  
 Bangor, Pa 18013

#### 1.4 Emergency Number s:

**US & Canada:** 1-800-424-9300  
**Outside the US & Canada:** +1 703-527-3887

### Section 2 – Hazards Identification

#### 2.1 Classification of substance or mixture

Not a hazardous substance or mixture

#### 2.2 GHS Label Elements Including Precautionary Statements

Not a hazardous substance or mixture

#### 2.3 Hazards not Classified or not Covered by the GHS

This substance is not considered to be persistent, bio accumulating nor toxic (PBT).

### Section 3 – Composition, Information on Ingredients

| Component   | Classification | Concentration |
|-------------|----------------|---------------|
| D-Galactose | NA             | -             |

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

**Molecular Weight:** 180.16 g/mol

**Synonyms:** D-Galactopyranose

### Section 4 - First Aid Measures

#### 4.1 Description of necessary first aid measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. Get medical aid if irritation develops.

**Skin:** Wash with plenty of soap and water for at least 15 minutes. Get medical aid if irritation develops or persists.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If victim is conscious rinse out mouth with water. Get medical attention.

**Inhalation:** Remove to fresh air. If not breathing give artificial respiration.

#### 4.2 Most Important symptoms/effects, acute and delayed

Refer to Section 2.2 for Precautionary Statements if any are applicable

#### 4.3 Indication of Immediate Medical Attention and Special Treatment

No information available

### Section 5 - Firefighting Measures

#### 5.1 Extinguishing Media

In case of fire, use water, dry chemical, chemical foam, or carbon dioxide.

#### 5.2 Hazardous decomposition products

Carbon oxides

#### 5.3 Special Equipment/Precautions for Firefighters

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Explosion will appear as fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### 5.4 Other information

None available

### Section 6 - Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8. Avoid dust and aerosol formation. Avoid breathing dust, vapours, mist or gas.

#### 6.2 Environmental Precautions

Do not allow to enter drains

#### 6.3 Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Do not let enter drains. Ventilate area of leak or spill. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

#### 6.4 Other information

None available

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Other information

None available

## Section 8 - Exposure Controls, Personal Protection

### 8.1 Control parameters

Chemical does not contain any substances with occupational exposure limits

### 8.2 Engineering Controls

Use adequate ventilation to keep airborne concentrations low.

### 8.3 Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. Wear impervious gloves. Nitrile rubber with layer thickness 0.11mm. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. A respiratory protection program that meets OSHA's 29 CFR '1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

|  |   |
|--|---|
| <b>Physical State:</b> Solid                     | <b>Freezing/Melting Point:</b> 168-170 °C (334-338 °F)                  |
| <b>Appearance:</b> White Powder                  | <b>Boiling Point:</b> Not Available                                     |
| <b>Odor:</b> Odorless                            | <b>Decomposition Temperature:</b> Not available.                        |
| <b>pH:</b> 5.0 – 7.0 at 180 g/l at 25 °C (77 °F) | <b>Solubility:</b> 180g/L   |
| <b>Vapor Pressure:</b> Not Available             | <b>Specific Gravity/Density:</b> Not Available                          |
| <b>Vapor Density:</b> 6.2                        | <b>Molecular Formula:</b> C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> |
| <b>Viscosity:</b> Not available                  | <b>Molecular Weight:</b> 180.16 g/mol                                   |

## Section 10 - Stability and Reactivity

### 10.1 Chemical Stability

Stable under normal temperatures and pressures.

### 10.2 Conditions to Avoid

Incompatible materials, dust generation, excess heat.

### 10.3 Incompatibilities with Other Materials

Strong oxidizing agents

### 10.4 Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

### 10.5 Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### 11.1 Toxicological effects

**RTECS#:** LW5490000

**CAS#** 59-23-4 is unlisted.

**LD50/LC50:**

No data available.

**Carcinogenicity:** 59-23-4 is not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Potential Health Effects:**

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Not available.

**Other Studies:** Not available.

**RTECS#:** LW5490000

To the best of our knowledge the associated physical, chemical and toxicological properties of this chemical have not undergone thorough investigation, all known information is contained in this SDS.

## Section 12 - Ecological Information

### 12.1 Ecotoxicity:

Not available.

### 12.2 Persistence and degradability

No information available

### 12.3 Bioaccumulative Potential

No information available

### 12.4 Mobility in Soil

No information available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other Adverse Effects

No information available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

|                | US DOT                    | IATA                      | RID/ADR                   | IMO                       | Canada TDG                |
|----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Shipping Name: | No information available. | No information available. | No information available. | No information available. | No information available. |

## Section 15 - Regulatory Information

### 15.1 EHS Chemical Specific Regulations

#### TSCA

CAS# 59-23-4 is listed on the TSCA inventory.

**Health & Safety Reporting List:** Not Available

**Chemical Test Rules:** Not Available

**Section 12b:** Not Available

#### SARA

**Section 302 (RQ):** Not Available

**Section 302 (TPQ):** Not Available

**SARA Codes:** Not Available

**Section 313:** Not Available

**Clean Air Act:** N/A

**Clean Water Act:** N/A

**OSHA:** N/A

#### STATE:

##### Pennsylvania Right To Know Components

D-Galactose CAS-No.59-23-4

##### New Jersey Right To Know Components

D-Galactose CAS-No.59-23-4

##### California Prop. 65 Components

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

**REACH Number:** No registration number is available, the substance or uses of this substance are exempt from registration, annual tonnage registration is not required or it is envisaged for a registration deadline at a later date.

## Section 16 - Additional Information

### HMIS Classification

Health hazard: 2

Flammability: 1

Physical hazards: 0

Personal Protection: E

### NFPA Rating

Health hazard: 2

Fire: 1

Reactivity Hazard: 0

*The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.*