



# D-Galactose

## Safety Data Sheet

According to Regulation (EC) 1272/2008

### SECTION 1 - Chemical Product and Company Identification

#### 1.1 Product Identifiers

Product Name : D-Galactose  
 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

**Supplier** BioSpectra, Inc.  
 100 Majestic Way  
 Bangor, PA 18013  
 T: 610.599.3400  
 ehs@biospectra.us

#### 1.4 Emergency Numbers

Emergency Numbers: 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	-

Synonyms : D-Galactopyranose,  
 Molecular Formula : C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>  
 Molecular Weight : 180.16 g/mol  
 CAS# : 59-23-4  
 EC# : 200-416-4

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## 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, lifting lower and upper lids 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 the 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

Not Available

## SECTION 5 - Firefighting Measures

### 5.1 Extinguishing Media

In case of fire, use water spray, alcohol resistant foam, dry chemical, 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.

### 5.4 Other Information

Combustible Dust. 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.

## 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, vapors, mist or gas.

### 6.2 Environmental Precautions

Do not allow to enter drains.

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

Sweep up and shovel. Keep in suitable closed containers for disposal.

### 6.4 Other Information

See disposal notes in section 13.

## SECTION 7 - Handling and Storage

### 7.1 Precautions for Safe Handling

Provide appropriate exhaust ventilation at places where dust is formed.

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**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**

Physical State	: Solid
Appearance	: White Crystalline
Odor	: Odorless
pH	: 5.0 – 7.0 at 180 g/l at 25 °C (77 °F)
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Viscosity	: Not Available
Freezing/Melting Point	: 168-170 °C (334-338 °F)
Boiling Point	: Not Available
Decomposition Temperature	: Not Available
Solubility	: 350g/L @ 20°C
Specific Gravity/Density	: Not Available
Molecular Formula	: C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
Molecular Weight	: 180.16 g/mol.

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## 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
LD50/LC50	:	Not Available
Carcinogenicity	:	59-23-4 is not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

### 11.2 Potential Health Effects

Epidemiology	:	Not Available
Teratogenicity	:	Not Available
Reproductive Effects	:	Not Available
Neurotoxicity	:	Not Available
Mutagenicity	:	Not Available
Other Studies	:	Not Available

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

Not Available

### 12.3 Bioaccumulative Potential

Not Available

### 12.4 Mobility in Soil

Not 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

Not Available

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**SECTION 13 - Disposal Considerations****13.1 Disposal Methods**

Dispose of in a manner consistent with Federal, State, and Local Regulations.

**SECTION 14 - Transport Information**

Regulations	US DOT	IATA	IMDG	ADR
Shipping Name	Not DangerousGoods	Not DangerousGoods	Not DangerousGoods	Not DangerousGoods
Hazard Class				
UN Number				
Packing Group				

**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
Section 313	: Not Available
Clean Air Act	: Not Available
Clean Water Act	: Not Available
OSHA	: Not Available

**SARA:**

Section 302 (RQ)	: Not Available
Section 302 (TPQ)	: Not Available
SARA Codes	: Not Available

**STATE SPECIFIC:**

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****16.1 Hazard Rating****HMIS Classification**

Health Hazard	0
Flammability	0
Physical Hazards	0
Personal Protection	E

**NFPA Rating**

Health Hazard	0
Fire	0
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.

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