



D-Galactose

Safety Data Sheet According to Regulation (EC) 1272/2008 Issue Date: 08/26/20 Revision date: 08/26/23

SECTION 1 - Chemical Product and Com	pany 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 <u>ra@biospectra.us</u>	
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		

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Component	Classification	Concentration
D-Galactose	NA	-
Synonyms Molecular Formula Molecular Weight CAS# EC#	 D-Galactopyranose, D-Galactopyranoside C₆H₁₂O₆ 180.16 g/mol 59-23-4 200-416-4 	

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. 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

Not 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, 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.

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 Appearance	:	Solid 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	:	180g/L @ 20°C
Specific Gravity/Density	:	Not Available
Molecular Formula	:	$C_6H_{12}O_6$
Molecular Weight	:	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 h	eat.	
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# : LD50/LC50 :	59-23-4 Not Available	
Carcinogenicity :	59-23-4 is not listed by ACGIH, IARC, NIOSH, NTP, or OSHA	
11.2 Potential Health Effects		
Epidemiology:Teratogenicity:Reproductive Effects:Neurotoxicity:Mutagenicity:Other Studies:	Not Available Not Available Not Available Not Available Not Available Not Available	
To the best of our knowledge the associated phys thorough investigation, all known information is	ical, chemical and toxicological properties of this chemical have not undergone 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 a	safety assessment not required/not conducted.	
12.6 Other Adverse Effects		
Not Available		
SECTION 13 - Disposal Considerations		
13.1 Disposal Methods		

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

SECTION 14 - Transport Informa	ition			
Regulations	US DOT	ΙΑΤΑ	IMDG	ADR
Shipping Name				
Hazard Class	Not	Not	Not	Not
UN Number	Dangerous Goods	Dangerous Goods	Dangerous Goods	Dangerous Goods
Packing Group				

SECTION 15 - Regulatory Information

15.1 EHS Chemical Specific Regulations TSCA:	
	50.02 A is listed on the TSCA inventory
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

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