



Material Safety Data Sheet

Section I Chemical Product and Company Identification

Importer		Manufacturer	
Name:		Name:	Bionostics, Inc.
Address:		Address:	7 Jackson Road Devens, Massachusetts USA 01434
Telephone:		Telephone:	+01 978 772 7070
Fax:		Fax:	+01 978 772 7072

Product Name:	EQUIL[®] Plus with Glucose and Lactate	Catalog No:	QC 463, QC463-1, QC463-2, QC463-3
Product Use:	For in vitro use for quality control of laboratory instrumentation		
Labeling Text	N/A	Danger Symbol(s)	N/A
Shipping Name	N/A	IATA	Not known

Section II Composition / Information on Ingredients

Chemical Family:	bovine hemoglobin solution with inorganic salts	Chemical Name:	N/A
Component	CAS Number	Concentration Ranges	EEE Symbol / Risk Phrases
Contains no hazardous ingredients with concentration greater than 1% or carcinogens with concentration greater than 0.1%			

Section III Hazards Identification

Eye Contact	May cause irritation if in contact with eye.
Skin Contact	Skin contact may cause irritation.
Ingestion	Though not a likely route of occupational exposure, ingestion of this product may cause choking, vomiting or nausea.
Inhalation	N/A
Chronic Exposure	N/A

Section IV First Aid Measures

Eye Contact	Although no adverse health reactions are expected from the normal use of this product, it is recommended flush eyes with water and seek medical advice whenever there has been a potential injury to the eye.
Skin Contact	If contact with this product leads to reddening, inflammation, or irritation, flush the exposed area with running water. If irritation persists, get medical attention.
Ingestion	As a precaution, get medical attention if there has been ingestion of this product.
Inhalation	If breathing becomes difficult, remove victim to fresh air. Get medical attention
Chronic Exposure	N/A

Section V Firefighting Measures

Autoflammability	not determined
Flash Point (test method)	not determined
Extinguishing Media	Use fire extinguishing media appropriate for site conditions.
Special Firefighting Procedures	Structural fire fighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.
Fire and Explosion Hazards	not determined
Hazardous Combustion Products	Thermal decomposition may emit carbon monoxide and carbon dioxide.
Upper Explosion Limit (%)	not determined
Lower Explosion Limit (%)	not determined

Section VI Accidental Release Measures

Spill and Leak Procedures	Use an absorbent material to contain/pick up the spilled solution. Place all contaminated disposables into a suitable container, seal, label and hold for disposal.
---------------------------	---

Section VII Handling and Storage

Storage Temperature	Store vials as directed in the package insert.
Handling / Storage	Handle and store vials as directed in the package insert.
Ventilation Requirements	No special requirements
Sensitivity to Static Electricity	not known
Sensitivity to Mechanical Impact	not known

Section VIII Exposure Controls / Personal Protection

Respiratory Protection	Respiratory protection is not required under normal use of this product.
Ventilation	Supplemental ventilation is not required for the normal use of this product.
Protective gloves	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.
Other Protective Equipment	Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.
Other Engineering controls	Eye wash stations and deluge showers.
Work Practices	Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Do not place in mouth.
Hygienic Practices	Do not eat, drink, or smoke while working with this product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

Section IX Physical and Chemical Properties

Pure substance or preparation	Preparation	Physical Form	Liquid
Appearance / Odor	Red, odorless	pH AS is	neutral
Odor threshold	Not determined	Boiling point (760 mmHg)	not determined
Melting / Freezing point	Not determined	Solubility in Water	complete
Partition coefficient	Not determined	Relative density	not determined
Evaporation rate	Not determined	Vapor pressure (mmHg)	not determined
Vapor density (air = 1)	Not determined	Viscosity	not determined
Volatiles	Not determined	Volatile Organic Compounds	not determined
Autoflammability	Not determined	Flash point	not determined
Oxidizing properties	Not determined		

Section IX Physical and Chemical Properties

Stability	Stable
Materials to avoid	Strong bases, strong acids and water reactive materials
Hazardous decomposition products	Thermal decomposition may emit carbon monoxide and carbon dioxide.

Section XI Toxicological Information

Route of Entry	Ingestion, skin and/or eye contact.		
Effects of chronic exposure	not known	Effects of acute exposure	not known
Special health effects	not known	Target organs	not known
Cancer Lists	NTC Carcinogen		
Ingredient	CAS Nr.	Known	Anticipated
			IARC Category

Section XII Ecological Information

Potential effect on environment	Not known	Potential to bioaccumulate	not known
Mobility	Not known	Ecotoxicity	not known
Persistence and degradeability	Not known	Aqua toxicity	not known

Section XIII Disposal Considerations

Waste disposal	Please consult local, state and federal regulations for additional guidance on disposal.
Empty container warnings	not known

Section XIV Transport Information (See also Section IX)

ADR / RID	not known	CEPIC Tremcard number	not known
Hazchem code	not known	Kemmler code	not known
IMDG classification	not known	IATA classification	not known
Marine Pollutant	not known	UN number (S.I.N)	not known
UN class	not known	UN packing group	not known

Section XV Regulatory Information

EEC hazard classification	not known
Risk phrases	not known
Safety phrases	not known

Section XVI Other Information

Directives 88/379/EEC and 91/155/EEC have been considered when compiling this SDS; the information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety or environmental legislation. This information does not constitute indication of suitability for specific uses.

The information, data and recommendations contained herein are based upon information believed by Bionostics, after reasonable investigation and research, to be accurate; however, Bionostics does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Bionostics disclaims any warranty against patent infringement and the implied warranties of merchantability and fitness for a particular purpose. Customer's sole and exclusive remedy shall be replacement of the product or return of the product and refund of the purchase price, at Bionostics' option. In no case shall Bionostics be liable for incidental or consequential damages, including lost profits.