

Safety Data Sheet

Revision Date: 17-October-2016

24 Hour Emergency #: 1-800-255-3924

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE
COMPANY/UNDERTAKING**

PRODUCT NAME: Dulbecco's Phosphate Buffered Saline with Ca & Mg
CATALOG NUMBER: 114-059-101, 130-059-161
CHEMICAL NAME: An aqueous solution of Potassium Chloride, Potassium phosphate monobasic, Sodium chloride, Sodium phosphate dibasic, Calcium chloride and Magnesium chloride.

Company/Undertaking Identification

Quality Biological Inc.
7581 Lindbergh Drive
Gaithersburg, MD 20879
301-840-9331

2. HAZARDS IDENTIFICATION**GHS – Classification****Signal Word**

not hazardous

Health Hazard

not hazardous

Physical Hazards

not hazardous

Principle Routes of Exposure/ Potential Health effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Specific effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none



Target Organ Effects

No known effects under normal use conditions.

HMIS

Health	0
Flammability	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

Skin contact	Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.
Eye contact	Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.
Ingestion	Never give anything by mouth to an unconscious person
Inhalation	If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General: Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

Extinguishing Media: Water Spray, Carbon Dioxide, dry chemical powder or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Use Personal Protective Equipment: Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Spills and Leaks: Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

7. HANDLING AND STORAGE

Handling	Always wear recommended Personal Protective Equipment. No special handling advice required
Storage	Store in a tightly closed container at room temperature.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

We are not aware of any national exposure limit.

Engineering measures	Ensure adequate ventilation, especially in confined areas
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Personal protective equipment

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment
Hand protection	Protective gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure Controls	Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Liquid
Appearance	Clear, colorless
Odor	Odorless

Important Health Safety and Environmental Information

Boiling point/range	°C No data available	°F No data available
Melting point/range	°C No data available	°F No data available
Flash point	°C No data available	°F No data available
Autoignition temperature	°C No data available	°F No data available
Oxidizing properties	No information available	
Water solubility	soluble	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	None under normal use
Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION



Acute toxicity

not hazardous

Principle Routes of Exposure/ Potential Health effects

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Skin	May cause skin irritation in susceptible persons.
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Ingestion	May be harmful if swallowed.

Specific effects

Carcinogenic effects	none
Mutagenic effects	none
Reproductive toxicity	none
Sensitization	none

Target Organ Effects

No known effects under normal use conditions.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard Class	none
Subsidiary Class	none
Packing group	none
UN-No	none

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

U.S. State Regulations**California Proposition 65**

This product does not contain chemicals listed under Proposition 65

WHMIS hazard class:

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.

End of Safety Data Sheet