
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phosphate Buffer with Magnesium Chloride
Catalog Number: BP60
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.
Supplier's Name: Dalynn Biologicals Inc.
Address: 3253 – 34 Avenue NE
Calgary, AB, Canada
T1Y 6X2

Telephone: 1-888-404-4045
Fax: (403) 250-9010
Chemical Emergency: 1-613-996-6666
Phone Number Only

2. HAZARD IDENTIFICATION**Emergency Overview****GHS Classification**

Not a hazardous substance or mixture.

GHS Label Elements, Including Precautionary Statements

None

3. COMPOSITION & INFORMATION ON INGREDIENTS

Synonyms Glycerin

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Potassium phosphate monobasic	<0.1	7758-11-4	231-834-5	-
Magnesium chloride	<0.1	7786-30-3	232-094-6	-
Water	~99.0	7732-18-5	231-791-2	-

4. FIRST AID MEASURES**General advice**

Consult a physician. No negative effects expected for exposure; if feeling unwell show this safety data sheet to the doctor in attendance. Move affected individual out of affected area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash affected area with soap and plenty of water. If feeling unwell, consult a physician.

In case of eye contact

Flush eyes with plenty of water as a precaution. If feeling unwell, consult a physician.

If swallowed

Do not induce vomiting. Rinse mouth with water if patient is conscious. No serious side effects expected if swallowed. If feeling unwell, consult a physician.

5. FIREFIGHTING MEASURES**Conditions of flammability**

Non-flammable. Contains 99% water.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: carbon oxides

Explosion data – sensitivity to mechanical impact

Not sensitive to mechanical impact

Explosion data – sensitivity to static discharge

Not sensitive to static discharge

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear gloves when cleaning up spill.

Environmental precautions

Can be washed down the sink safely. No environmental precautions are required.

Methods and materials for containment and cleaning up

Wearing gloves soak up with paper towel and discard with regular garbage.

7. HANDLING AND STORAGE**Precautions for safe handling**

Use in area with adequate ventilation.

Conditions for safe storage

Store at room temperature tightly sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Use in area with adequate ventilation.

Hand protection

Handle with gloves. 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 after use.

Eye protection

None required but face shield and/or safety glasses can be used if desired. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and body protection

Wear appropriate clothing such as a lab coat that covers as much of the body as possible.

Hygiene measures

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Liquid
Color	Clear

Safety data

pH	7.0 to 7.5
Melting point/ freezing point	0°C (32°F)
Boiling point	100°C (212°F)
Flash point	No data available
Ignition temperature	No data available
Auto ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Relative density	1.00 g/cm ³ at 3.98°C (39.16°F)
Water solubility	soluble
Partition coefficient/ n-octanol/water	No data available
Relative vapor density	No data available
Odour	No data available
Odour threshold	No data available

Evaporation rate

No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Chemical stability

Stable if stored as recommended.

Materials to avoid

Strong oxidizing agents, strong acids

Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50 Oral - Rat – 90,000 mg/kg (water)

LD50 Oral - Rat – >2,000 mg/kg (potassium phosphate dibasic)

LD50 Oral - Rat – >5,000 mg/kg (magnesium chloride)

Inhalation LC50

LC50 Inhalation - Rat - male and female - 4 h - > 0.83 mg/L (potassium phosphate dibasic)

Dermal LD50

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (potassium phosphate dibasic)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (magnesium chloride)

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No data available

Potential health effects

No negative health effects are expected on exposure

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

No data available

Additional information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Product is non-hazardous and can be disposed of down the sink or thrown out with regular waste.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

16. OTHER INFORMATION

Further information

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.
