Material Safety Data Sheet

Catalog Number: 28103
Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 28103

Product name: PHOSPHATE BUFFERED SALINE TABLETS (DULBECCO)

Supplier:
MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
WATER	7732-18-5	90 - 100%	None	None
SODIUM CHLORIDE	7647-14-5	0.1 - 1.5%	None	None
SODIUM PHOSPHATE DIBASIC ANHYDROUS	7558-79-4	0.1 - 1.5%	None	None
POTASSIUM CHLORIDE	7447-40-7	< 0.1%	None	None
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	7778-77-0	< 0.1%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin
Inhalation: May cause irritation of respiratory tract
Ingestion: May be harmful if swallowed.
Skin contact: May cause allergic skin reaction
Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.
Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation: Move to fresh air. Call a physician immediately.
Skin contact: Rinse immediately with plenty of water and seek medical advice
Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Protection of first-aiders: No information available
Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or "alcohol" foam
Specific hazards:	Burning produces irritant fumes.
Unusual hazards:	None known
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods:	Water mist may be used to cool closed containers.
Flash point:	Not determined
Autoignition temperature:	Not determined

NFPA rating:

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment.
Environmental precautions:	Prevent product from entering drains.
Methods for cleaning up:	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

Handling:	Use only in area provided with appropriate exhaust ventilation.
Safe handling advice:	Wear personal protective equipment.
Incompatible products:	Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.
PERSONAL PROTECTIVE EQUIPMENT
Respiratory protection: Breathing apparatus only if aerosol or dust is formed.
Hand protection: Pvc or other plastic material gloves
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection: Safety glasses with side-shields
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Formula:	Not applicable
Melting point/range:	No data available at this time.
Boiling point/range:	No Data available at this time.
Density:	No data available

Vapor pressure:	No data available
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	No data available
Flash point:	Not determined
Autoignition temperature:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid:	Strong oxidising agents
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity

Components	**RTECS Number:**	**Selected LD50s and LC50s**
WATER	ZC0110000	Oral LD50 Rat = > 90 ml/kg
SODIUM CHLORIDE	VZ4725000	Inhalation LC50 Rat : >42 gm/m^3/1H Oral LD50 Rat : 3 gm/kg Oral LD50 Mouse : 4 gm/kg Dermal LD50 Rabbit : >10 gm/kg
SODIUM PHOSPHATE DIBASIC ANHYDROUS	WC4500000	Oral LD50 Rat : 17 gm/kg
POTASSIUM CHLORIDE	TS8050000	Oral LD50 Rat : 2600 mg/kg Oral LD50 Mouse : 1500 mg/kg
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	TC6615500	Dermal LD50 Rabbit : >4640 mg/kg

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	No data is available on the product itself.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	1; Fussnote 14	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	1	Not Listed	Not Listed
POTASSIUM CHLORIDE	1	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging:

Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components	U.S. DOT - Appendix A Table 1 - Reportable Quantities
WATER	Not Listed
SODIUM CHLORIDE	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	RQ = 5000 pounds (2270 kg)
POTASSIUM CHLORIDE	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed

TDG (Canada):

WHMIS hazard class: Non-controlled

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants
WATER	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components
WATER

Inventory - United States TSCA - Sect. 8(b)	Present
Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-791-2; H2O
Korean KECL:	KE-35400
Philippines PICCS:	Present

Components
SODIUM CHLORIDE

Inventory - United States TSCA - Sect. 8(b)	Present

Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-598-3; ClNa
Inventory - Japan:	1-236
Korean KECL:	KE-31387
Philippines PICCS:	Present
Components	
SODIUM PHOSPHATE DIBASIC ANHYDROUS	
Inventory - United States TSCA - Sect. 8(b)	Present
Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-448-7; H3O4P.2Na
Inventory - Japan:	1-497
Korean KECL:	KE-12344
Philippines PICCS:	Present
Components	
POTASSIUM CHLORIDE	
Inventory - United States TSCA - Sect. 8(b)	Present
Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-211-8; ClK
Inventory - Japan:	1-228
Korean KECL:	KE-29086
Philippines PICCS:	Present
Components	
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	
Inventory - United States TSCA - Sect. 8(b)	Present
Canada DSL Inventory List -	Present
Australia (AICS):	Present
Inventory - China:	Present
EU EINECS List -	231-913-4; H3O4P.K
Inventory - Japan:	1-452
Korean KECL:	KE-28622
Philippines PICCS:	Present

U.S. regulations:

Components	**California Proposition 65 -**	**Massachusetts Right to Know List:**	**New Jersey Right to Know List:**	**Pennsylvania Right to Know List:**
WATER	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	[present]	sn 1723	environmental hazard
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed	Not Listed

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
WATER	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	Not Listed	Not Listed

Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
WATER	Not Listed	Not Listed	None	None
SODIUM CHLORIDE	Not Listed	Not Listed	None	None
SODIUM PHOSPHATE DIBASIC ANHYDROUS	Not Listed	Not Listed	None	None
POTASSIUM CHLORIDE	Not Listed	Not Listed	None	None
POTASSIUM PHOSPHATE MONOBASIC ANHYDROUS	Not Listed	Not Listed	None	None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet