

# SAFETY DATA SHEET

Issuing Date Sep-2010 Revision Date Aug-2015 Revision Number 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Hematology Buffer Powder (pH 7.1)

Other means of identification

Product Code(s) VHB

Synonyms Phosphate Buffer

Recommended use of the chemical and restrictions on use

Recommended Use For Further Manufacturing Use Only.
Uses advised against Not for Human or Animal Drug Use

Details of the company Company Address

Volu-Sol

5095 W 2100 S

Salt Lake City, UT 84120

Company Phone Number 1-800-821-2495

E-mail Address customerservice@volusol.com

Emergency Telephone Number 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

## Classification

**OSHA Regulatory Status** 

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

## Label elements

**Emergency Overview** 

 Appearance White
 Physical State Powder
 Odor No information available

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Sodium phosphate dibasic	7558-79-4	231-448-7	50-60	Not applicable
Dihydrogen potassium phosphate	7778-77-0	231-913-4	40-50	Not applicable

Revision Date Aug-2015

## 4. FIRST AID MEASURES

**First Aid Measures** 

**Eye Contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

## **Specific Hazards Arising from the Chemical**

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**Avoid dust formation. Sweep up and place in closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Handling Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products**None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium phosphate dibasic 7558-79-4	-	-	
Dihydrogen potassium phosphate 7778-77-0	<del>-</del>	-	

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Powder

AppearanceWhiteOdorNo information availableColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7.1

Melting point/freezing point

Boiling Point/Range No information available
Flash Point (High in °C) No information available
Evaporation Rate No information available
Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available **Water Solubility** No information available Solubility in other solvents No information available Partition coefficient No information available

**Autoignition Temperature** 

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content
Density
No information available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium phosphate dibasic 7558-79-4	= 17 g/kg (Rat)	-	-
Dihydrogen potassium phosphate 7778-77-0	-	> 4640 mg/kg (Rabbit)	-

#### Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium phosphate dibasic	-	-	-	-
7558-79-4				
Dihydrogen potassium	-	-	-	-
phosphate				
7778-77-0				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Sodium phosphate dibasic 7558-79-4	-	-	-
Dihydrogen potassium phosphate 7778-77-0	-	-	-

## Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Log Pow
Sodium phosphate dibasic 7558-79-4	-
Dihydrogen potassium phosphate 7778-77-0	-

Other Adverse Effects No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium phosphate dibasic 7558-79-4	-	-	-	-
Dihydrogen potassium phosphate 7778-77-0	<u>-</u>	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium phosphate dibasic 7558-79-4	-	-	-	-

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Dihydrogen potassium	-	-	-	-
phosphate				
7778-77-0				

Chemical Name	California Hazardous Waste Status
Sodium phosphate dibasic 7558-79-4	-
Dihydrogen potassium phosphate 7778-77-0	-

## 14. TRANSPORT INFORMATION

DOTNot regulatedIATANot regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Does not comply **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Sodium phosphate dibasic 7558-79-4 ( 50-60 )	-
Dihydrogen potassium phosphate 7778-77-0 ( 40-50 )	-

## SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium phosphate dibasic 7558-79-4	5000 lb	-	-	Х
Dihydrogen potassium phosphate 7778-77-0	-	-	-	-

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium phosphate dibasic 7558-79-4	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Dihydrogen potassium phosphate 7778-77-0	-	-	-

## U.S. State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
Sodium phosphate dibasic - 7558-79-4	-	
Dihydrogen potassium phosphate - 7778-77-0	-	

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium phosphate dibasic 7558-79-4	X	X	Х
Dihydrogen potassium phosphate 7778-77-0	<del>-</del>	-	-

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

#### Canada

## **WHMIS Hazard Class**

Non-controlled

## **16. OTHER INFORMATION**

Issuing DateSep-2010Revision DateAug-2015

Revision Note Update to Format Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**