# spectrum®



# SAFETY DATA SHEET

Preparation Date: 7/27/2014	Revision date 2/2/2018	Revision Number: G2					
	1. IDENTIFICATION						
Product identifier	Product identifier						
Product code: Product Name:	P1386 POTASSIUM PHOSPHATE DIBASIC, ANHYD	ROUS, BIOTECHGRADE					
Other means of identification Synonyms:	Dipotassium Phosphate; Dipotassium hydrogen phosphate; Dipotassium monohydrogen phosphate; Phosphoric acid, dipotassium salt						
CAS #: RTECS # CI#:	<b>#:</b> 7758-11-4						
Recommended use of the chen	nical and restrictions on use						
Recommended use:Buffer.Uses advised againstNo information available							
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000						
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)						

# 2. HAZARDS IDENTIFICATION

# **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	T	CAS No	Weight-%				
Potassium Phosphate Dibasic, Anhydrous		7758-11-4	100				
- Clabolant Hoophate Disable, 7 mily			100				
		4. FIRST AID MEASURES					
First aid measures							
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.						
Skin Contact:		ff immediately with soap and plenty of wa Get medical attention if irritation develops	ter removing all contaminated clothing and . Consult a physician if necessary.				
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.						
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.						
Ingestion:		nduce vomiting without medical advice. N cious person. Consult a physician if neces					
Most important symptoms and effect	ts, both	acute and delayed					
Symptoms	May cause eye/skin irritation May cause digestive (gastrointestinal) tract irritation May cause abdominal discomfort May cause nausea and vomiting May cause diarrhea						
Indication of any immediate medical	attenti	on and special treatment needed					
Notes to Physician:	Treat s	mptomatically.					
Protection of first-aiders First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.							
	5	. FIRE-FIGHTING MEASURES					
Extinguishing Media   Suitable Extinguishing Media:   The product is not flammable. If it is involved in a extinguish the fire using an agent suitable for the surrounding fire.							

Unsuitable Extinguishing Media:

No information available.

# Specific hazards arising from the chemical

## Hazardous combustion products

Specific hazards

Special Protective Actions for Firefighters

**Specific Methods:** 

**Special Protective Equipment for Firefighters:** 

If it is involved in a fire the following can be released:. Oxides of phosphorus. Potassium oxides.

No information available.

No information available

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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

## **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

## Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

# Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# Incompatible Materials:

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

# National occupational exposure limits

Product code: P1386

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Potassium Phosphate	7758-11-4	None	None	None	None
Dibasic, Anhydrous					

# Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	None	None	None	None

# **Australia and Mexico**

Component	CAS No	Australia	Mexico
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	None	None

# Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

# Individual protection measures, such as personal protective equipment

# **Personal Protective Equipment**

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHOSPHATE DIBASIC, ANHYDROUS, BIOTECHGRADE

Physical state: Solid	Appearance: Crystalline powder. Granular. Granular powder.	<b>Color:</b> White. Off-white.		
Odor: Odorless.	<b>Taste</b> No information available.	<b>Formula</b> K2HPO4		
Molecular/Formula weight (g/mole): 174.18	Flammability (solid, gas) no data available	Flashpoint (°C/°F): No information available		
Product code: P1386	Product name: POTASSIUM		Page	4 / 11

Flash Point Tested according to: Not available

**Upper Explosion Limit (%):** No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Miscibility: No information available

Reactive with oxidizing agents

Reactivity

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): ca. 340 °C/644 °F

Bulk density: No information available

**pH** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** Very soluble in water Slightly soluble in alcohol Lower Explosion Limit (%): No information available

**Decomposition temperature(°C/°F):** >465 °C/869 °F

**Density (g/cm3):** 2.3

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	: Hazardous polymerization does not occur
Conditions to avoid:	Exposure to moisture. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Phosphorus oxides. Oxides of potassium.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

**Principal Routes of Exposure:** Ingestion. Inhalation.

Acute Toxicity

# **Component Information**

Potassium Phosphate Dibasic, Anhyc		
CAS No LD50/oral/rat = No information	7758-11-4	
LD50/oral/mouse = 1700mg/		
LD50/dermal/rabbit = 4640 r	ng/kg	
LD50/dermal/rat = No inform		
LC50/inhalation/rat = No info LC50/inhalation/mouse = No		
	ion = No information available	
Product Information		
LD50/oral/rat = Value - Acute Toxicity = No info	rmation available	
LD50/oral/mouse = Value - Acute Tox = 1700 mg/kg		
LD50/dermal/rabbit Value - Acute Toxicity = 4640 m	ng/kg	
LD50/dermal/rat VALUE - Acute Tox = No inform	ation available	
LC50/inhalation/rat VALUE-Vapor = No information av VALUE-Gas = No information av VALUE-Dust/Mist = No informati	ailable	
LC50/Inhalation/mouse VALUE-Vapor = No information a VALUE - Gas = No information a VALUE - Dust/Mist = No informa	vailable	
Symptoms_		
Skin Contact:	May cause skin irritation.	
Eye Contact:	May cause eye irritation.	
Inhalation	May cause irritation of respiratory tract.	
Ingestion	Acute potassium poisoning (hyperkalemia) by mouth is rare becaus doses usually induce vomiting and because in the absence of pre-e damage, potassium is rapidly excreted. However, if a significant an potassium is absorbed hyperkalemia may occur. Symptoms of hyperinclude tiredness or weakness, a feeling of numbness or tingling of (paresthesia), trouble breathing, chest pain, heart palpitations or irrec heartbeat. Phosphates are toxic because of their ability to sequested they are slowly and incompletely absorbed when ingested, and seld systemic effects. The most frequently observed effect is gastrointes with abdominal pain, and cramping, vomiting and diarrhea. If ingest doses occurs and if a significant amount of phosphate is absorbed, electrolyte (mineral) disturbances (imbalances) can occur resulting in	xisting kidney nount of erkalemia may the extremities egular er calcium, but dom result in stinal irritation, tion of large severe
Product code: P1386	<b>Product name:</b> POTASSIUM PHOSPHATE DIBASIC, ANHYDROUS, BIOTECHGRADE	<b>Page</b> 6 / 11

	hyperphosphatemia, hypocalcemia, hyperkalemia, hypernatremia and hypomagnesemia. Symptoms may include anorexia, increased thirst (dehydration), metabolic acidosis, decrease in the amount of urine or in frequency of urination, intermittent polyuria (excessive urination or increase in urine volume), renal failure, trouble breathing and shortness of breath, tetany/carpopedal spasms, seizures/convulsions, tremor, dizziness, fatigue, lethargy, confusion, changes in mood such as anxiety, depression or irritability, weakness, muscle cramps, joint and bone pain, numbness or tingling, pain around the mouth or lips, hands or feet, weakness in the hands or feet, bradycardia (slow heartbeat) or tachycardia (fast heartbeat), dysrhythmias (cardiac arrhythmias), hypotension, cardiac arrest.
Aspiration hazard	No information available.
Delayed and immediate effects a	as well as chronic effects from short and long-term exposure
Chronic Toxicity	No information available.
Sensitization:	No information available.
Mutagenic Effects:	No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available		
Reproductive Effects:	No information available		
Developmental Effects:	No information available		
Teratogenic Effects:	No information available		

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Ecotoxicity effects:

No data available.

Product code: P1386

Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

# **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	None	None	None	None

# 14. TRANSPORT INFORMATION

# DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (Ibs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada)	
UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available

IMDG	
UN-No:	Not regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
ICAO (air) UN-No:	
	Not regulated No information available
Proper Shipping Name: Hazard Class	No information available
	No information available
Subsidiary Risk:	No information available
Packing Group:	
ΙΑΤΑ	
UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response	
Special Provisions	No information available

# **15. REGULATORY INFORMATION**

# **International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Potassium Phosphate	7758-11-4	PresentACTIV	Present	Present	Present	Present	Present	Present
Dibasic, Anhydrous		E	KE-12167		(1)-452			231-834-5

# **U.S. Regulations**

Potassium Phosphate Dibasic, Anhydrous

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.6285

**FDA - 21 CFR - Total Food Additives** 133.169, 133.173, 133.179, 175.105, 182.6285, 73.85 **- List Sourced from EAFUS** 

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive

				Toxicity	Toxicity:
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	None	None	None	None	None

# U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	Not Applicable	Not Applicable

### Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification	
Information:	

Component Potassium Phosphate Dibasic, Anhydrous 7758-11-4 (100) WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Potassium Phosphate Dibasic,	7758-11-4	Present	Not Listed
Anhydrous			

Component	CAS No	CEPA Schedule I - Toxic Substances
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	Not listed

## EU Classification

# EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	

### EU - CLP (1272/2008)

# S -phrase(s)

none

Component	CAS No	 Concentration Limits:	Safety Phrases
Potassium Phosphate Dibasic, Anhydrous	7758-11-4	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

Not dangerous

# 16. OTHER INFORMATION

Preparation Date:	7/27/2014	
Revision date	2/2/2018	
Prepared by:	Sonia Owen	

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet