

## Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

<b>Product Name</b>	• <b>Dipotassium Phosphate Food Grade</b>
<b>Synonyms</b>	• Dibasic potassium phosphate; Dipotassium orthophosphate; DKP
<b>CAS Number</b>	• 7758-11-4
<b>SDS Number/Grade</b>	• 13a
<b>EC Number</b>	• 231-834-5
<b>Product Description</b>	• White powder solid with no odor.
<b>Molecular Formula</b>	• K <sub>2</sub> HPO <sub>4</sub>
<b>Molecular Weight</b>	• 175.3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified use(s)</b>	• Food: Buffering agent for processing foods, Stabilizer for non-dairy coffee creamers. Pharmaceuticals: Nutrient for antibiotic production, Humectant
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### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer</b>	• Innophos 259 Prospect Plains Rd. Bldg A Cranbury, NJ 08512-3706 United States
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**Telephone (Technical)** • 609-495-2495

### 1.4 Emergency telephone number

<b>Manufacturer</b>	• 800-424-9300 - Chemtrec - within USA and Canada
<b>Manufacturer</b>	• +1 703-527-3887 - Chemtrec - outside USA and Canada (collect calls accepted)
<b>Manufacturer</b>	• 615-386-7816 - Innophos Emergency Communication Team (ECT)

## Section 2: Hazards Identification

### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

<b>CLP</b>	• Not classified
<b>DSD/DPD</b>	• Not classified

### 2.2 Label Elements

<b>CLP</b>	<b>Hazard statements</b> • No label element(s) required.
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**DSD/DPD**

**Risk phrases** ● No label element(s) required.

**2.3 Other Hazards**

**CLP** ● According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

**DSD/DPD** ● This product is not considered dangerous under the European Directive 67/548/EEC

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**

**OSHA HCS 2012** ● Not classified

**2.2 Label elements**

**OSHA HCS 2012**

**Hazard statements** ● No label element(s) required.

**2.3 Other hazards**

**OSHA HCS 2012** ● This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

**Canada**

According to WHMIS

**2.1 Classification of the substance or mixture**

**WHMIS** ● Not classified

**2.2 Label elements**

**WHMIS**

● No label element(s) required.

**2.3 Other hazards**

**WHMIS**

● In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS)

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Phosphoric acid, potassium salt (1:2)	CAS:7758-11-4 EINECS:231-834-5	100%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

**3.2 Mixtures**

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention.

#### Skin

- In case of contact with substance, immediately flush skin with running water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention immediately if symptoms occur.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Get medical attention immediately if symptoms occur.

#### Ingestion

- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • Not combustible. Use extinguishing media suitable for surrounding fire.

**Unsuitable Extinguishing Media** • None known.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Non-combustible.

**Hazardous Combustion Products** • Oxides of phosphorus, oxides of potassium.

### 5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.  
LARGE FIRES: Move containers from fire area if you can do it without risk.  
LARGE FIRES: Do not scatter spilled material with high pressure water streams.  
LARGE FIRES: Dike fire-control water for later disposal.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Do not touch or walk through spilled material.

**Emergency Procedures** • Keep unauthorized personnel away.

### 6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Sweep or vacuum up and place in an appropriate closed container. Avoid dispersal of dust in air. Clean up residual material by washing area with water and detergent. Collect washings for disposal.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- This is a food ingredient intended for human consumption. Keep containers closed when not in use. Do not breathe (dust, vapor or spray mist) Avoid direct or prolonged contact with skin and eyes.

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

#### Storage

- Store in a well-ventilated place. Keep container tightly closed. Store in an area that is cool, dry and sanitary.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values: local exhaust ventilation at the point of generation.

#### Personal Protective Equipment

##### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

- Wear safety glasses. An emergency eye wash must be readily accessible to the work area.

##### Hands

- Wear appropriate gloves.

##### Skin/Body

- Wear long sleeves and/or protective coveralls.

#### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Do not use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder with no odor.
Color	White	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	9.3
Specific Gravity/Relative Density	Data lacking	Water Solubility	Soluble 63 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- None known.

### 10.5 Incompatible materials

- None known.

### 10.6 Hazardous decomposition products

- Oxides of phosphorus. Oxides of potassium.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Not relevant OSHA HCS 2012 • Not relevant
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

**Route(s) of entry/exposure**

- Inhalation, Skin, Eye, Ingestion

**Medical Conditions Aggravated by Exposure**

- Lungs Skin/Dermal .

**Potential Health Effects****Inhalation****Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- No data available.

**Skin****Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- No data available.

**Eye****Acute (Immediate)**

- May cause irritation.

**Chronic (Delayed)**

- No data available.

**Ingestion****Acute (Immediate)**

- May cause irritation if swallowed. Ingestion of large quantities of potassium salts may cause nausea, vomiting, diarrhea and abdominal discomfort.

**Chronic (Delayed)**

- No data available.

**Other****Chronic (Delayed)**

- Potassium salts have a hypothetical risk of hyperkalemia. Hyperkalemia may result in depolarization of cardiac muscle and subsequent changes in cardiac muscle excitability. This may result in hypotension or hypertension, cardiac dysrhythmias, heart block, and cardiac arrest.

**Carcinogenic Effects**

- This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

**Section 12 - Ecological Information****12.1 Toxicity**

- No data found for product.

**12.2 Persistence and degradability**

- No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

**12.3 Bioaccumulative potential**

- No data found for product.

**12.4 Mobility in Soil**

- No data found for product.

**12.5 Results of PBT and vPvB assessment**

- PBT and vPvB assessment has not been carried out.

**12.6 Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

**14.6 Special precautions for user**

- None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not relevant.

**Section 15 - Regulatory Information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • None

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Phosphoric acid, potassium salt (1:2)	7758-11-4	Yes	No	Yes	Yes	No

  

Inventory (Con't.)				
Component	CAS	New Zealand	Philippines PICCS	TSCA
Phosphoric acid, potassium salt (1:2)	7758-11-4	Yes	Yes	Yes

### Canada

#### Labor

##### Canada - WHMIS - Classifications of Substances

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Uncontrolled product according to WHMIS classification criteria
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##### Canada - WHMIS - Ingredient Disclosure List

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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#### Environment

##### Canada - CEPA - Priority Substances List

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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### Germany

#### Environment

##### Germany - TA Luft - Types and Classes

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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##### Germany - Water Classification (VwVwS) - Annex 1

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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##### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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##### Germany - Water Classification (VwVwS) - Annex 3

• Phosphoric acid, potassium salt (1:2)	7758-11-4	ID Number 8172, hazard class 1 - low hazard to waters
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### Philippines

#### Other

##### Philippines - Priority Chemical List

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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### Singapore

#### Other

##### Singapore - Corrosive and Explosive Substances - Corrosive Substances

• Phosphoric acid, potassium salt (1:2)	7758-11-4	Not Listed
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## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CAA (Clean Air Act) - Class II Ozone Depletors

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - California - Proposition 65 - Developmental Toxicity

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

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### Section 16 - Other Information

**Last Revision Date**

- 14/October/2014

**Preparation Date**

- 14/October/2014

**Disclaimer/Statement of Liability**

- The information herein is given in good faith but no warranty, expressed or implied, is made.

**Key to abbreviations**

NDA = No Data Available