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

1.1 Product identifier

Product Name  ● Dipotassium Phosphate Food Grade
Synonyms  ● Dibasic potassium phosphate; Dipotassium orthophosphate; DKP
CAS Number  ● 7758-11-4
SDS Number/Grade  ● 13a
EC Number  ● 231-834-5
Product Description  ● White powder solid with no odor.
Molecular Formula  ● K2HPO4
Molecular Weight  ● 175.3

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

Relevant identified use(s)  ● Food: Buffering agent for processing foods, Stabilizer for non-dairy coffee creamers. Pharmaceuticals: Nutrient for antibiotic production, Humectant

1.3 Details of the supplier of the safety data sheet

Manufacturer  ● Innophos
259 Prospect Plains Rd. Bldg A
Cranbury, NJ 08512-3706
United States

Telephone (Technical)  ● 609-495-2495

1.4 Emergency telephone number

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

Section 2: Hazards Identification

EU/EEC

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

2.1 Classification of the substance or mixture

CLP  ● Not classified
DSD/DPD  ● Not classified

2.2 Label Elements

CLP

Hazard statements  ● No label element(s) required.
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

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

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
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

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<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance/Description</td>
<td>White powder with no odor.</td>
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<tr>
<td>Color</td>
<td>White</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<th>General Properties</th>
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<td>Boiling Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble 63 %</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Explosive Properties</td>
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<table>
<thead>
<tr>
<th>Volatility</th>
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<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Data lacking</td>
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<tr>
<td>Vapor Density</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Evaporation Rate</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
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</tr>
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<tbody>
<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>UEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Autoignition</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Flammable.</td>
</tr>
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</table>

<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>EU/CLP</th>
<th>OSHA HCS 2012</th>
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<tbody>
<tr>
<td>Acute toxicity</td>
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<td>Data lacking</td>
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<tr>
<td>Aspiration Hazard</td>
<td>Not relevant</td>
<td>Not relevant</td>
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<tr>
<td>Carcinogenicity</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>Data lacking</td>
<td>Data lacking</td>
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<tr>
<td>STOT-SE</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>Data lacking</td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

### Route(s) of entry/exposure
- Inhalation
- Skin
- Eye
- Ingestion
- Lungs
- Skin/Dermal

### 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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>TDG</td>
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<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
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<td>IMO/IMDG</td>
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<td>NDA</td>
<td>NDA</td>
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<td>IATA/ICAO</td>
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<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, potassium salt (1:2)</td>
<td>7758-11-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>New Zealand</th>
<th>Philippines PICCS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, potassium salt (1:2)</td>
<td>7758-11-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Canada**

**Labor**

- **Canada - WHMIS - Classifications of Substances**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Uncontrolled product according to WHMIS classification criteria

- **Canada - WHMIS - Ingredient Disclosure List**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

**Environment**

- **Canada - CEPA - Priority Substances List**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

**Germany**

**Environment**

- **Germany - TA Luft - Types and Classes**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

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

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

- **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

**Philippines**

**Other**

- **Philippines - Priority Chemical List**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed

**Singapore**

**Other**

- **Singapore - Corrosive and Explosive Substances - Corrosive Substances**
  - Phosphoric acid, potassium salt (1:2) 7758-11-4 Not Listed
### 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.

Section 16 - Other Information

<table>
<thead>
<tr>
<th>Last Revision Date</th>
<th>14/October/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation Date</td>
<td>14/October/2014</td>
</tr>
<tr>
<td>Disclaimer/Statement of Liability</td>
<td>The information herein is given in good faith but no warranty, expressed or implied, is made.</td>
</tr>
</tbody>
</table>

Key to abbreviations

NDA = No Data Available