MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

CHEMICAL NAME: Potassium Phosphate Dibasic
SYNONYMS: Dipotassium Phosphate
CAS NUMBER: 7758-11-4
MOLECULAR WEIGHT: 174.18
CHEMICAL FORMULA: K$_2$HPO$_4$
JOST CODE NUMBER(S): 2659, 2660, 2661, 2662, 2665, 2666, 2667, 2671, 2673, 2674 & 2679

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
<th>Exposure Limits (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Phosphate Dibasic</td>
<td>7758-11-4</td>
<td>100%</td>
<td>15 mg/m$^3$ (Total)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 mg/m$^3$ (Respirable)</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

INHALATION: Not expected to be a health hazard.
INGESTION: May result in gastrointestinal irritation.
SKIN CONTACT: No adverse effects expected.
EYE CONTACT: No adverse effects expected, but dust may cause mechanical irritation.
CHRONIC EXPOSURE: May sequester calcium and cause calcium phosphate deposits in the kidneys.

SECTION 4: FIRST AID MEASURES

INHALATION: Move exposed person to fresh air. If not breathing, seek immediate medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention.

INGESTION: Give several glasses of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
SKIN CONTACT: Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.

EYE CONTACT: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: Oxides of potassium and phosphorus

FIRE: Not considered to be a fire hazard.

EXPLOSION: Not considered to be an explosion hazard

FIRE EXTINGUISHING MEDIA: Use fire-extinguishing media appropriate to the surrounding fire.

SPECIAL INFORMATION: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL CONTROL & RECOVERY: Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Pick up spill for recovery or disposal and place in a closed container.

DISPOSAL: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
STORAGE: Store in accordance with local regulations. Store in original container. Keep container tightly closed and sealed until ready for use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: 15 mg/m³ (Total), 5 mg/m³ (Respirable)

ENGINEERING CONTROLS: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

RESPIRATORY PROTECTION: Where exposure to the dust is apparent, a NIOSH approved dust/mist respirator may be worn.

SKIN PROTECTION: Wear protective gloves and clean body covering clothing

EYE PROTECTION: Use chemical safety glasses or goggles and/or full-face shield where dusting or splashing of solution is possible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT: NA
APPEARANCE: White granules
ODOR: Odorless
SOLUBILITY: 100 grams in 67 grams cold water
MELTING POINT: Decomposes at >465°C (>869°F)
PH: 8.8 (1% Solution)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

CONDITION/MATERIAL TO AVOID: Incompatibles

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include oxides of potassium and phosphorus

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATABILITIES: Oxidizing agents
SECTION 11: TOXICOLOGICAL INFORMATION

LD₅₀/LC₅₀: Oral: 8000 mg/kg (Rat)

CARCINOGENICITY: NA

EPIDEMIOLOGY: NA

TERATOGENICITY: NA

REPRODUCTIVE EFFECTS: NA

MUTAGENICITY: NA

NEUROTOXICITY: NA

OTHER INFORMATION: NA

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: No information found

ENVIRONMENTAL FATE: No information found

SECTION 13: DISPOSAL CONSIDERATIONS

Generators of chemical wastes must make the determination as to whether a discarded chemical is a hazardous waste as defined by 40 CFR § 261.3. Material not recycled or recovered must be discarded in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT/IATA/IMDG: Material is not restricted

SECTION 15: REGULATORY INFORMATION

TSCA: Material is listed

CERCLA: Material is not listed

SARA TITLE III

SECTION 302 EHS: Material is not listed

SECTION 311/312: Acute
SECTION 313: Material is not listed

CLEAN AIR ACT: This product does not contain any Hazardous Air Pollutants. This product does not contain any Class 1 Ozone depletors. This product does not contain any Class 2 Ozone depletors.

CLEAN WATER ACT: This product is not listed as a Hazardous Substance under the CWA. This product is not listed as a Priority Pollutant under the CWA. This product is not listed as a Toxic Pollutant under the CWA.

STATE REGULATIONS

INTERNATIONAL REGULATIONS

CANADA – DSL: Material is listed
JAPAN (ENCS): Material is listed
AUSTRALIA (AICS): Material is listed
KOREA (ECL): Material is listed
PHILIPPINES (PICCS): Material is listed
NEW ZEALAND (NZIoC): Material is listed
SWITZERLAND (Giftliste): Material is listed

SECTION 16: OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 0 Reactivity: 0
HMIS RATINGS: Health: 1 Flammability: 0 Reactivity: 0

*******************************************************************************************

While Jost Chemical Co. believes that the data contained herein are factual; they are not to be taken as a warranty or representation for which Jost Chemical Co. assumes legal responsibility. They are offered solely for your consideration and investigation. Any use of these data and information must be determined by the user to be in accordance with the applicable Federal, State, and local laws and regulations.