

# Safety Data Sheet

In accordance with Commission Regulation (EU) No 2015/830



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Revision: 7

## PK FERTILIZER

| SECTION 1 |   | Identification of the substance/mixture and of the company/undertaking  |
|-----------|---|---|
| 1.1       | Product identifier  |   |
|           | Trade name  | PK, Foskamónio, Amicote y Nergetic  |
|           | Synonyms  | PK FERTILIZER   |
|           | Code  | DS-074  |
|           | Chemical name   | Not applicable  |
|           | Chemical formula  | Not applicable  |
|           | Index Number  | Not applicable  |
|           | EINECS Number   | -   |
|           | CAS Number  | -   |
|           | Registration Number   | -   |
| 1.2       | Relevant identified uses of the substance or mixture and uses advised against |   |
|           | Application of the substance / the mixture                                    | Fertilizer and intermediate in the blending of fertilizers  |
|           | Uses advised against  | Others than those indicated.  |
| 1.3       | Details of the supplier of the safety data sheet                              | ADP – Fertilizantes, S.A.<br>Estrada Nacional nº 10<br>2615-907 Alverca<br>Portugal<br>(00351) 210 300 400<br>e-mail: fdsinfo@grupofertiberia.com |
| 1.4       | Emergency telephone number  | SOPAC - Sociedade Produtora de Adubos Compostos S.A.-<br>+351 265030496<br>(Only available during office hours; Monday-Friday; 09:00-18:00)       |
| SECTION 2 |   | Hazards identification  |

## PK FERTILIZER

|     |   |  |
|-----|---|--|
| 2.1 | <b>Classification of the substance or mixture according Regulation (EC) n° 1272/2008 (CLP)</b>  | Eye Dam. 1 H318 Causes serious eye damage.   |
| 2.2 | <b>Label elements</b>   |  |
|     | <b>Hazard pictograms</b>  |   |
|     | <b>Signal word</b>  | Danger   |
|     | <b>Hazard-determining components of labelling</b>   | Superphosphate<br>Superphosphate, concentrated.  |
|     | <b>Hazard statements</b>  | H318 Causes serious eye damage.  |
|     | <b>Precautionary statements</b>   | P102 Keep out of reach of children.<br>P207 Do not eat, drink or smoke when using this product.<br>P280 Wear protective gloves/protective clothing/eye keep comfortable for breathing.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Call a POISON CENTER/doctor immediately. |
|     | <b>Additional information</b>   | Not applicable.  |
|     | <b>Supplemental information on the label</b>  | Not applicable.  |
|     | <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | Not applicable.  |
|     | <b>Special packaging requirements</b>   | Not applicable.  |
|     | <b>Containers to be fitted with child-resistant fastenings</b>  | Not applicable.  |
|     | <b>Tactile hazard warning</b>   | Not applicable.  |
| 2.3 | <b>Other hazards</b>  |  |
|     | <b>Other hazards which do not result in classification</b>  | None known.  |

## PK FERTILIZER

|                  |  |  |   |                   |                            |               |   |
|------------------|--|--|---|-------------------|----------------------------|---------------|---|
|                  | <b>Results of the PBT and vPvB assessment</b>                      | Not applicable.<br>Not applicable.   |   |                   |                            |               |   |
| <b>SECTION 3</b> | <b>Composition/information on ingredients</b>                      |  |   |                   |                            |               |   |
| <b>3.1</b>       | <b>Substances</b>  |  |   |                   |                            |               |   |
|                  | Not applicable.  |  |   |                   |                            |               |   |
| <b>3.2</b>       | <b>Mixtures</b>  |  |   |                   |                            |               |   |
|                  | <b>Name</b>  | <b>Index Number</b>  | <b>CE number</b>  | <b>CAS number</b> | <b>Registration number</b> | <b>%(P/P)</b> | <b>Classification Regulation CE N<sup>a</sup> 1272/2008</b> |
|                  | Superphosphate   | -  | 232-379-5   | 8011-76-5         | -                          | 7-70          | Eye Dam. 1 H318   |
|                  | Triple superphosphate  | -  | 266-030-3   | 65996-95-4        | -                          | 30-65         | Eye Dam. 1 H318   |
|                  | Potassium chloride   | -  | 231-211-8   | 7447-40-7         | -                          | 16-51         | Not classified  |
|                  | <b>Additional indications</b>                                      |  | For the wording of the listed hazard phrases refer to section 16. |                   |                            |               |   |
| <b>SECTION 4</b> | <b>First aid measures</b>  |  |   |                   |                            |               |   |
| <b>4.1</b>       | <b>Description of first aid measures</b>                           |  |   |                   |                            |               |   |
|                  | <b>General information</b>   | Seek medical treatment.  |   |                   |                            |               |   |
|                  | <b>Inhalation</b>  | Remove from exposure. In severe cases, or if recovery is not rapid or complete, seek medical attention.  |   |                   |                            |               |   |
|                  | <b>Ingestion</b>   | Rinse mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell, seek medical attention. |   |                   |                            |               |   |
|                  | <b>Skin contact</b>  | Rinse with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, seek medical attention.                |   |                   |                            |               |   |
|                  | <b>Eye contact</b>   | Irrigate with plenty of water for at least 10 minutes. Get medical attention.  |   |                   |                            |               |   |
| <b>4.2</b>       | <b>Most important symptoms and effects, both acute and delayed</b> |  |   |                   |                            |               |   |
|                  | <b>Eye contact</b>   | Redness, itching, burning.   |   |                   |                            |               |   |
|                  | <b>Inhalation</b>  | Difficulty in breathing.   |   |                   |                            |               |   |
|                  | <b>Skin contact</b>  | No significant effects or critical hazards are known.  |   |                   |                            |               |   |
|                  | <b>Ingestion</b>   | Nausea, vomiting, coughing,  |   |                   |                            |               |   |

## PK FERTILIZER

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| <b>4.3</b>                                   | <b>Indication of any immediate medical attention and special treatment needed</b>   |   |
|  | No action involving personal risk or without adequate training should be taken. Avoid direct mouth-to-mouth resuscitation, as it can be dangerous for the person providing the help. Use other methods for resuscitation, preferably oxygen or compressed air equipment. Treat according to the following indications:  |   |
|  | <b>Notes to physician</b>   | Inhalation of fire and thermal decomposition gases, containing phosphorous and sulphur oxides, can cause irritation and corrosive effects on the respiratory system. Some lung effects may be delayed.                |
|  | <b>Specific treatments</b>  | There is no specific treatment. It depends on specialized medical observation.  |
| <b>SECTION 5 Firefighting measures</b>       |   |   |
| <b>5.1</b>                                   | <b>Extinguishing media</b>  |   |
|  | The product is not flammable.   |   |
|  | <b>Suitable extinguishing agents</b>  | If product is not directly involved in the fire:<br>Use the best means available to extinguish the fire.<br>If product is involved in the fire:<br>Use plenty of water.   |
|  | <b>Unsuitable extinguishing agents for safety reasons</b>   | Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.   |
| <b>5.2</b>                                   | <b>Special hazards arising from the substance or mixture</b>  |   |
|  | Formation of toxic gases is possible during heating or in case of fire.   |   |
|  | <b>Hazardous thermal decomposition products</b>   | During heating or in case of fire poisonous gases are produced.<br>Phosphorus oxides (e.g. P <sub>2</sub> O <sub>5</sub> )<br>Sulphur oxides (SO <sub>x</sub> )<br>Danger of toxic fluorine based pyrolysis products. |
| <b>5.3</b>                                   | <b>Advice for firefighters</b>  |   |
|  | Open warehouse doors and windows for maximum ventilation.<br>Fire-fighting personnel should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operating in positive pressure mode. Clothing for fire-fighting personnel (including helmets, protective boots) should conform to European standard EN 469 and gloves to EN 659. It should provide a basic level of protection for chemical incidents and should be fire resistant. The facility shall have sufficient protective equipment available to deal with fires. |   |
| <b>SECTION 6 Accidental release measures</b> |   |   |
| <b>6.1</b>                                   | <b>Personal precautions, protective equipment and emergency procedures</b>  |   |

## PK FERTILIZER

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|                  | <p>To avoid projections of toxic liquid by overflowing from both containers and tanks during loading or unloading operations, the following spill prevention measures shall be adopted:</p> <p>(a) In receptacles: The protection system on receptacles shall depend on the type of installation; so as to ensure that there is no overfilling of receptacles by means of two independent safety features; e.g. level indicators and independent high level alarm. The shut-off valve may be either automatic or manually operated.</p> <p>In port installations, constant observation of the container level by an operator connected by radiotelephone or other effective means of communication with the operator of the shut-off valve is permitted.</p> <p>(b) In tanks: The provisions laid down in the Royal Decree on the loading/unloading of dangerous goods shall be taken into account. When open-mouth loading is carried out, a diving tube shall be used to the bottom of the tank.</p> <p>(c) In hoses and loading arms: Dripping at the ends of the hoses and loading arms shall be avoided. If it does occur, it shall be adequately collected.</p> <hr/> <p><b>For non-emergency personnel</b></p> <hr/> <p>No action will be carried out that involves a personal risk or without adequate training. Do not allow personnel who are not needed or unprotected to enter. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment (as referred to in section 8 of the safety data sheet). Follow local emergency procedures and installation personnel instructions.</p> <hr/> <p><b>For emergency responders</b></p> <hr/> <p>If specialized clothing is required to deal with the spill, make note of any information on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> |
| <b>6.2</b>       | <b>Environmental precautions</b>  |
|                  | <p>Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, watercourses, soil or air).</p>  |
| <b>6.3</b>       | <b>Methods and material for containment and cleaning up</b>   |
|                  | <p>Ensure adequate ventilation. Dispose contaminated material as waste according to item 13.</p>  |
| <b>6.4</b>       | <b>Reference to other sections</b>  |
|                  | <p>See Section 1 for information on contact in case of emergency.<br/>         See Section 8 for information on personal protection equipment.<br/>         See Section 13 for disposal information.</p>  |
| <b>SECTION 7</b> | <b>Handling and storage</b>   |
| <b>7.1</b>       | <b>Precautions for safe handling</b>  |

## PK FERTILIZER

|                  |  |   |
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|                  | <b>Technical precautionary measures</b>  | Wear appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food areas. Avoid contact with eyes, skin or clothing. Do not breathe vapours or mist. Do not ingest. Avoid release to the environment. Keep in original container or approved alternative made of compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residues and may be hazardous. Do not reuse container.  |
|                  | <b>Advice on general occupational hygiene</b>  | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |
| <b>7.2</b>       | <b>Conditions for safe storage, including any incompatibilities</b>  |   |
|                  | Keep only in the original container. Keep container tightly closed. Store in a cool, well-ventilated place, away from heat, direct sunlight and incompatible substances. |   |
| <b>7.3</b>       | <b>Specific end use(s)</b>   |   |
|                  | Use only as described in section 1.2.  |   |
| <b>SECTION 8</b> | <b>Exposure controls/personal protection</b>   |   |
| <b>8.1</b>       | <b>Control parameters</b>  |   |
|                  | <b>Occupational exposure limits</b>  | There is no limit of occupational exposure value.   |
|                  | <b>Recommended monitoring procedures</b>   | If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Monitoring standards such as the following may be used as reference: European Standard EN 689 (Atmospheres in the workplace. Guidelines for the evaluation of inhalation exposure of chemical agents for comparison with limit values and measurement strategy), European Standard EN 14042 (atmospheres in the workplace. Guidelines for the application and use of procedures to assess exposure to chemical and biological agents) European Standard EN 482 (atmospheres in the workplace. General requirements for the performance of procedures for measuring chemical agents). National guidance documents on methods for the determination of hazardous substances should also be used as a reference. |
|                  | <b>Derived effect levels</b>   | No DELs available.  |
|                  | <b>Predicted effect concentrations</b>   | No PECs available.  |
|                  | <b>Ingredients with limit values that require monitoring at the workplace</b>  | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.  |
| <b>DNEL</b>      |  |   |

## PK FERTILIZER

| Substance                             |                              |                   |                 | 65996-95-4                             | 8011-76-5                              |
|---------------------------------------|------------------------------|-------------------|-----------------|--|--|
|                                       |                              |                   |                 | Superphosphate, concentrated           | Simple superphosphate                  |
| <b>Industrial/Professional worker</b> | <b>Inhalation (mg/m3)</b>    | <b>Long-term</b>  | <b>Systemic</b> | 2,9 mg/m3                              | 2,9 mg/m3                              |
|                                       |                              |                   | <b>Local</b>    | No hazard has been identified          | No hazard has been identified          |
|                                       |                              | <b>Short-term</b> | <b>Systemic</b> | No hazard has been identified          | No hazard has been identified          |
|                                       |                              |                   | <b>Local</b>    | No hazard has been identified          | No hazard has been identified          |
|                                       | <b>Dermal (mg/kg pc/dia)</b> | <b>Long-term</b>  | <b>Systemic</b> | 4,2 mg/kg bw/d                         | 4,2 mg/kg bw/d                         |
|                                       |                              |                   | <b>Local</b>    | No hazard has been identified          | No hazard has been identified          |
|                                       |                              | <b>Short-term</b> | <b>Systemic</b> | No hazard has been identified          | No hazard has been identified          |
|                                       |                              |                   | <b>Local</b>    | No hazard has been identified          | No hazard has been identified          |
|                                       | <b>Ocular (mg/kg pc/dia)</b> | <b>Long-term</b>  | <b>Systemic</b> | Not available                          | Not available                          |
|                                       |                              |                   | <b>Local</b>    | Not available                          | Not available                          |
|                                       |                              | <b>Short-term</b> | <b>Systemic</b> | Medium risk (no threshold was derived) | Medium risk (no threshold was derived) |
|                                       |                              |                   | <b>Local</b>    | Medium risk (no threshold was derived) | Medium risk (no threshold was derived) |
|                                       | <b>Inhalation (mg/m3)</b>    | <b>Long-term</b>  | <b>Systemic</b> | 0,72 mg/m3                             | No hazard has been identified          |
|                                       |                              |                   | <b>Local</b>    | No hazard has been identified          | No hazard has been identified          |
|                                       |                              | <b>Short-term</b> | <b>Systemic</b> | No hazard has been identified          | No hazard has been identified          |

## PK FERTILIZER

|                    |                                    |                            |                   |  |  |                               |
|--------------------|------------------------------------|----------------------------|-------------------|--|--|-------------------------------|
| <b>Consumer</b>    | <b>Dermal (mg/kg pc/day)</b>       | <b>Long-term</b>           | <b>Local</b>      | No hazard has been identified          | No hazard has been identified          |                               |
|                    |                                    |                            | <b>Systemic</b>   | 2,1 mg/kg bw/d                         | 2,08 mg/kg bw/d                        |                               |
|                    |                                    | <b>Short-term</b>          | <b>Local</b>      | No hazard has been identified          | No hazard has been identified          |                               |
|                    |                                    |                            | <b>Systemic</b>   | No hazard has been identified          | No hazard has been identified          |                               |
|                    |                                    | <b>Oral (mg/kg pc/day)</b> | <b>Long-term</b>  | <b>Systemic</b>                        | 0,42 mg/kg bw/d                        | No hazard has been identified |
|                    |                                    |                            |                   | <b>Local</b>                           | No hazard has been identified          | No hazard has been identified |
|                    |                                    |                            | <b>Short-term</b> | <b>Systemic</b>                        | Not available                          | No hazard has been identified |
|                    |                                    |                            |                   | <b>Local</b>                           | Not available                          | No hazard has been identified |
|                    | <b>Ocular (mg/kg pc/day)</b>       | <b>Long-term</b>           | <b>Systemic</b>   | Not available                          | Not available                          |                               |
|                    |                                    |                            | <b>Local</b>      | Not available                          | Not available                          |                               |
|                    |                                    | <b>Short-term</b>          | <b>Systemic</b>   | Medium risk (no threshold was derived) | Medium risk (no threshold was derived) |                               |
|                    |                                    |                            | <b>Local</b>      | Medium risk (no threshold was derived) | Medium risk (no threshold was derived) |                               |
|                    | <b>PNEC</b>                        |                            |                   |  |  |                               |
|                    | <b>Substance</b>                   |                            |                   |  | 65996-95-4                             | 8011-76-5                     |
|                    |                                    |                            |                   |  | Superphosphate, concentrated           | Simple superphosphate         |
|                    | <b>Fresh water (mg/L)</b>          |                            |                   |  | No hazard has been identified          | No hazard has been identified |
|                    | <b>Salt water (mg/L)</b>           |                            |                   |  | No hazard has been identified          | No hazard has been identified |
|                    | <b>STP (mg/L)</b>                  |                            |                   |  | No hazard has been identified          | No hazard has been identified |
|                    | <b>Fresh water sediment (mg/L)</b> |                            |                   |  | No hazard has been identified          | No hazard has been identified |
|                    | <b>Salt water sediment (mg/L)</b>  |                            |                   |  | No hazard has been identified          | No hazard has been identified |
| <b>Air (mg/L)</b>  |                                    |                            |                   | No hazard has been identified          | No hazard has been identified          |                               |
| <b>Soil (mg/L)</b> |                                    |                            |                   | No hazard has been identified          | No hazard has been identified          |                               |



## PK FERTILIZER

|            |  |   |   |  |
|------------|--|---|---|--|
|            | <b>Predators (secondary poisoning) (mg/L)</b>                              |   | The substance has no bioaccumulation potential  | The substance has no bioaccumulation potential |
|            | <b>Components with biological limit values</b>                             | Non-existent.   |   |  |
|            | <b>Additional indications</b>  | The Occupational exposure limits lists valid during the making were used as basis.  |   |  |
| <b>8.2</b> | <b>Exposure controls</b>   |   |   |  |
|            | <b>Appropriate engineering controls</b>                                    | <p>As a general rule, access shall be prohibited to unauthorised personnel. The prohibition shall be posted on a clearly visible and legible sign.</p> <p>Ventilation. Storerooms and loading and unloading or transfer facilities shall be designed with natural or forced ventilation so that the risk of exposure of workers is adequately controlled. For this purpose, the design shall take special account of the characteristics of the vapours to which they may be exposed and of the source of the emissions, their collection at source and their possible transmission to the environment of the storage or installation.</p> <p>Where they are located inside buildings, ventilation shall be channelled to a safe place outside through dedicated ducts, taking into account the permissible emission levels to the atmosphere. Where forced ventilation is used, it shall be provided with an alarm system in case of failure.</p> <p>Premises with pits or basements where vapours may accumulate shall have adequate forced ventilation in such pits or basements to prevent the accumulation of vapours.</p> |   |  |
|            | <b>Personal protective measures, such as personal protective equipment</b> | <b>General protection and hygiene measures</b>  | <p>Wash completely the hands, forearms and face after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.</p> <p>Use the appropriate techniques to remove the contaminated clothes. Wash the contaminated clothes before reusing. Verify that the eyes washing stations and safety showers were near to working stations.</p> |  |
|            |  | <b>Respiratory protection</b>   | <p>If exposure levels exceed or may exceed the recommended exposure limits, use suitable breathing apparatus e.g. mouth-face masks equipped with type K filters, self-contained breathing apparatus according to EN 136, 140 or 405.</p>  |  |
|            |  | <b>Hand protection</b>  | <p>Chemical protective gloves According to standards: EN 374-1:2003 - EN 374-3:2003/AC:2006 - EN 420:2003+A1:2009.</p> <p>Replace gloves at any sign of deterioration.</p>  |  |
|            |  | <b>Glove material</b>   | PVC gloves  |  |
|            |  | <b>Other</b>  | Use personal protective equipment during use and handling of the product.   |  |
|            |  | <b>Eye/face protection</b>  | Use personal protective equipment during use and handling of the product.   |  |
|            |  | <b>Thermal hazards</b>  | Not available.  |  |

## PK FERTILIZER

|                  |  |  |
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|                  | <b>Environmental exposure controls</b>                       | Under EU environmental protection legislation it is recommended to avoid release of the product and its packaging into the environment. For further information see section 6.2. |
| <b>SECTION 9</b> | <b>Physical and chemical properties</b>                      |  |
| <b>9.1</b>       | <b>Information on basic physical and chemical properties</b> |  |
|                  | <b>Appearance</b>  | Solid  |
|                  | <b>Colour</b>  | Grey or brownish colour  |
|                  | <b>Odour</b>   | Odourless  |
|                  | <b>Odour threshold</b>                                       | Not available.   |
|                  | <b>pH</b>  | > 2,5 (10%)  |
|                  | <b>Melting point/freezing point</b>                          | It decomposes before melting.  |
|                  | <b>Initial boiling point and boiling range</b>               | Undetermined   |
|                  | <b>Flash point</b>   | Not available  |
|                  | <b>Evaporation rate</b>                                      | Not available  |
|                  | <b>Flammability</b>  | Non-flammable  |
|                  | <b>Upper/lower flammability or explosive limits</b>          |  |
|                  | <b>Lower</b>   | Not available.   |
|                  | <b>Upper</b>   | Not available.   |
|                  | <b>Vapour pressure</b>                                       | Not available.   |
|                  | <b>Vapour density</b>  | Not available.   |
|                  | <b>Relative density</b>                                      | 1,1-1,3  |
|                  | <b>Solubility</b>  |  |
|                  | <b>In water</b>  | 1-7 g/L (20°C)   |
|                  | <b>Partition coefficient: n-octanol/water</b>                | Not applicable   |
|                  | <b>Auto-ignition temperature</b>                             | Not available.   |
|                  | <b>Decomposition temperature</b>                             | > 100 °C   |
|                  | <b>Viscosity</b>   |  |
|                  | <b>Kinematic</b>   | Not available  |
|                  | <b>Dynamic</b>   | Not available  |
|                  | <b>Explosive properties</b>                                  | The product is not explosive   |

## PK FERTILIZER

|   |   |   |                                  |                   |                                 |  |
|---|---|---|----------------------------------|-------------------|---------------------------------|--|
|   | <b>Oxidising properties</b>                 | Not available   |                                  |                   |                                 |  |
| <b>9.2</b>  | <b>Other information</b>                    | No additional information No further relevant information available.              |                                  |                   |                                 |  |
| <b>SECTION 10 Stability and reactivity</b>                        |   |   |                                  |                   |                                 |  |
| <b>10.1</b>   | <b>Reactivity</b>                           | Stable under recommended storage and handling conditions.                         |                                  |                   |                                 |  |
| <b>10.2</b>   | <b>Chemical stability</b>                   | Stable under recommended storage and handling conditions.                         |                                  |                   |                                 |  |
| <b>10.3</b>   | <b>Possibility of hazardous reactions</b>   | When strongly heated, it decomposes releasing toxic vapors.                       |                                  |                   |                                 |  |
| <b>10.4</b>   | <b>Conditions to avoid</b>                  | Alkalis<br>Urea (Mixing with urea causes formation of very sticky urea phosphate) |                                  |                   |                                 |  |
| <b>10.5</b>   | <b>Incompatible materials</b>               | Reacts with alkali.   |                                  |                   |                                 |  |
| <b>10.6</b>   | <b>Hazardous decomposition products</b>     | In case of fire: see section on fire-fighting measures.                           |                                  |                   |                                 |  |
| <b>SECTION 11 Toxicological information</b>                       |   |   |                                  |                   |                                 |  |
| <b>11.1</b>   | <b>Information on toxicological effects</b> |   |                                  |                   |                                 |  |
| <b>Acute toxicity</b>   |   |   |                                  |                   |                                 |  |
|   | <b>Component</b>                            | <b>CAS number</b>   | <b>Method</b>                    | <b>Species</b>    | <b>Route</b>                    | <b>Result</b>  |
|   | Superphosphate, concentrated                | 65996-95-4  | OECD 425<br>OECD 403<br>OECD 402 | Rat<br>Rat<br>Rat | Oral<br>Inhalation<br>Cutaneous | DL50 > 2000 mg/kg bw.<br>CL50 > 4840 mg/m <sup>3</sup> air<br>DL50 > 5000 mg/kg bw |
|   | Simple superphosphate                       | 8011-76-5   | OECD 425<br>OECD 403<br>OECD 402 | Rat<br>Rat<br>Rat | Oral<br>Inhalation<br>Cutaneous | DL50 > 2000 mg/kg bw.<br>CL50 > 5 mg/L air<br>DL50 > 5000 mg/kg bw                 |
| Based on available data, the classification criteria are not met. |   |   |                                  |                   |                                 |  |
| <b>Skin corrosion/irritation</b>                                  |   |   |                                  |                   |                                 |  |
|   | <b>Component</b>                            | <b>CAS number</b>   | <b>Method</b>                    | <b>Species</b>    | <b>Route</b>                    | <b>Result</b>  |
|   | Superphosphate, concentrated                | 65996-95-4  | OECD 404                         | Rabbit            | Cutaneous                       | Non irritant   |
|   | Simple superphosphate                       | 8011-76-5   | OECD 404                         | Rabbit            | Cutaneous                       | Non irritant   |
| Based on available data, the classification criteria are not met. |   |   |                                  |                   |                                 |  |
| <b>Serious eye damage/irritation</b>                              |   |   |                                  |                   |                                 |  |

## PK FERTILIZER

| Component                    | CAS number | Method        | Species | Route  | Result                                 |
|------------------------------|------------|---------------|---------|--------|--|
| Superphosphate, concentrated | 65996-95-4 | Not specified | Rabbit  | Ocular | Category 1. Causes serious eye damage. |
| Simple superphosphate        | 8011-76-5  | Not specified | Rabbit  | Ocular | Category 1. Causes serious eye damage. |

Classified as H318 Causes serious eye damage.

### Respiratory or skin sensitisation

| Component                    | CAS number | Method   | Species | Route     | Result          |
|------------------------------|------------|----------|---------|-----------|-----------------|
| Superphosphate, concentrated | 65996-95-4 | OECD 429 | Mouse   | Cutaneous | Non sensitising |
| Simple superphosphate        | 8011-76-5  | OECD 429 | Mouse   | Cutaneous | Non sensitising |

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

| Component                    | CAS number | Method                    | Species                              | Result        |
|------------------------------|------------|---------------------------|--------------------------------------|---------------|
| Superphosphate, concentrated | 65996-95-4 | OECD 471<br>OECD 473      | Bacteria<br>Mutation of mammal cells | Non mutagenic |
| Simple superphosphate        | 8011-76-5  | OECD 471<br>Not specified | Bacteria<br>Mutation of mammal cells | Non mutagenic |

Based on available data, the classification criteria are not met.

### Carcinogenicity

| Component                    | CAS number | Method | Species | Route | Result  |
|------------------------------|------------|--------|---------|-------|---|
| Superphosphate, concentrated | 65996-95-4 | -      | -       | -     | Not available   |
| Simple superphosphate        | 8011-76-5  | -      | -       | -     | There are no available studies. Study scientifically not necessary. |

Based on available data, the classification criteria are not met.

### Reproductive toxicity

| Component | CAS number | Method | Species | Route | Result |
|-----------|------------|--------|---------|-------|--------|
|-----------|------------|--------|---------|-------|--------|

## PK FERTILIZER

|                              |            |          |     |      |   |
|------------------------------|------------|----------|-----|------|---|
| Superphosphate, concentrated | 65996-95-4 | OECD 422 | Rat | Oral | Effects on fertility:<br>NOAEL: 1500 mg/kg bw/d.<br>Toxicity for the development:<br>NOAEL: 750 mg/kg bw/d. |
| Simple superphosphate        | 8011-76-5  | -        | Rat | Oral | Effects on fertility:<br>NOAEL: 750 mg/kg bw/d.<br>Toxicity for the development:<br>NOAEL: 750 mg/kg bw/d.  |

Based on available data, the classification criteria are not met.

### STOT- single exposure

| Component                    | CAS number | Method        | Species       | Route         | Result        |
|------------------------------|------------|---------------|---------------|---------------|---------------|
| Superphosphate, concentrated | 65996-95-4 | Not available | Not available | Not available | Not available |
| Simple superphosphate        | 8011-76-5  | Not available | Not available | Not available | Not available |

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

| Component                    | CAS number | Method   | Species | Route | Result   |
|------------------------------|------------|----------|---------|-------|--|
| Superphosphate, concentrated | 65996-95-4 | OECD 422 | Rat     | Oral  | NOAEL: 250 mg/kg bw/d. Data conclusive but not sufficient for classification.                      |
| Simple superphosphate        | 8011-76-5  | OECD 422 | Rat     | Oral  | NOAEL: 250 mg/kg bw/d. The substance does not have to be classified as toxic by repeated exposure. |

Based on available data, the classification criteria are not met.

### Aspiration hazard

| Component                    | CAS number | Result  |
|------------------------------|------------|---|
| Superphosphate, concentrated | 65996-95-4 | No significant effects or critical hazards are known. |
| Simple superphosphate        | 8011-76-5  | No significant effects or critical hazards are known. |

Based on available data, the classification criteria are not met.

## SECTION 12 Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

| Component                    | N° CAS     |            | Fish             | Crustacea        | Algae                |
|------------------------------|------------|------------|------------------|------------------|----------------------|
| Superphosphate, concentrated | 65996-95-4 | Short term | CL50 > 85,9 mg/l | Not available    | CE50 > 100 mg/l      |
|                              |            | Long term  | Not available    | CE50 > 87,6 mg/l | CE10/NOEC: 87,6 mg/l |

## PK FERTILIZER

|  |                                      |               |  |  |                                     |                        |
|--|--------------------------------------|---------------|--|--|-------------------------------------|------------------------|
|  | Simple superphosphate                | 8011-76-5     | Short term                                       | CL50: 85,9 - 1700 mg/L   | Study scientifically not necessary. | CE50(72h): 1790 mg/L   |
|  |                                      |               | Long term  | Scientifically not necessary   | CE50: > 100 mg/l                    | CE10/NOEC: 100 mg/l    |
| <b>Terrestrial toxicity</b>                                    |                                      |               |  |  |                                     |                        |
|  | <b>Component</b>                     | <b>N° CAS</b> | <b>Macro-organism</b>                            | <b>Micro-organism</b>  | <b>Terrestrial plants</b>           | <b>Other organisms</b> |
|  | Superphosphate, concentrated         | 65996-95-4    | Not available                                    | Not available  | Not available                       | -                      |
|  | Simple superphosphate                | 8011-76-5     | Not available                                    | Not available  | Not available                       | -                      |
| <b>Microbiological activity in wastewater treatment plants</b> |                                      |               |  |  |                                     |                        |
|  | <b>Component</b>                     | <b>N° CAS</b> | <b>Toxicity to aquatic micro-organisms</b>       |  |                                     |                        |
|  | Superphosphate, concentrated         | 65996-95-4    | CE50(3h) > 100 mg/l<br>CE10/NOEC: 100 mg/l       |  |                                     |                        |
|  | Simple superphosphate                | 8011-76-5     | CE50(3h) > 100 mg/l<br>CE10/NOEC: 100 mg/l       |  |                                     |                        |
| <b>12.2</b>  | <b>Persistence and degradability</b> |               |  |  |                                     |                        |
|  | <b>Component</b>                     | <b>N° CAS</b> | <b>Degradation</b>                               |  |                                     |                        |
|  | Superphosphate, concentrated         | 65996-95-4    | <b>Hydrolysis</b>                                | Hydrolysis is not seen. It is not necessary.   |                                     |                        |
|  |                                      |               | <b>Photolysis</b>                                | Not necessary  |                                     |                        |
|  |                                      |               | <b>Biodegradation</b>                            | Not necessary since the substance is inorganic   |                                     |                        |
|  | Simple superphosphate                | 8011-76-5     | <b>Hydrolysis</b>                                | Scientifically not necessary   |                                     |                        |
|  |                                      |               | <b>Photolysis</b>                                | Scientifically not necessary   |                                     |                        |
|  |                                      |               | <b>Biodegradation</b>                            | A study was carried out to determine the photodegradation capacity of the substance. A half-life of 11 days was calculated for samples exposed to light and 425 days for dark control samples. |                                     |                        |
| <b>12.3</b>  | <b>Bioaccumulative potential</b>     |               |  |  |                                     |                        |
|  | <b>Component</b>                     | <b>N° CAS</b> | <b>Octanol-water partition coefficient (Kow)</b> | <b>Bioaccumulation factor (BFC)</b>  | <b>Observations</b>                 |                        |
|  | Superphosphate, concentrated         | 65996-95-4    | Not applicable                                   | -  | -                                   |                        |

## PK FERTILIZER

|                   |  |   |   |             |             |
|-------------------|--|---|---|-------------|-------------|
|                   | Simple superphosphate                                | 8011-76-5   | Not applicable  | -           | -           |
| <b>12.4</b>       | <b>Mobility in soil</b>                              |   |   |             |             |
|                   | <b>Component</b>                                     | <b>N° CAS</b>   | <b>Result</b>   |             |             |
|                   | Superphosphate, concentrated                         | 65996-95-4  | It is not necessary to carry out studies since the physicochemical properties of the substance indicate that it has a low adsorption potential.       |             |             |
|                   | Simple superphosphate                                | 8011-76-5   | It is not necessary to carry out studies ya que las propiedades físico-químicas de la sustancia indican que esta tiene un bajo potencial de adsorción |             |             |
| <b>12.5</b>       | <b>Results of PBT and vPvB assessment</b>            |   |   |             |             |
|                   | Not applicable.                                      |   |   |             |             |
| <b>12.6</b>       | <b>Other adverse effects</b>                         |   |   |             |             |
|                   | Significative effects o critics risks are not known. |   |   |             |             |
| <b>SECTION 13</b> | <b>Disposal considerations</b>                       |   |   |             |             |
| <b>13.1</b>       | <b>Waste treatment methods</b>                       |   |   |             |             |
|                   | Methods of disposal                                  | <p>Waste management (disposal and recovery) :</p> <p>Consult the authorised waste manager for recovery and disposal operations, in accordance with Annex 1 and Annex 2 (Directive 2018/851/EC, Law 7/2022 of 8 April, on waste and contaminated soil for a circular economy)..</p> <p>Packaging: According to codes 15 01 (Commission Decision 2014/955/EU), if the packaging has been in direct contact with the product, it should be treated in the same way as the product itself, otherwise it should be treated as non-hazardous waste. Discharge into waste water is not recommended. See section 6.2.</p> <p>Waste management provisions :</p> <p>In accordance with Annex II of Regulation (EC) No 1907/2006 (UK REACH), the Community or national provisions on waste management are presented.</p> <p>Community legislation: Directive 2018/851/EC, Commission Decision 2014/955/EU, Regulation (EU) no. 1357/2014 and the national legislation.</p> |   |             |             |
|                   | Hazardous waste code                                 | HP4: Irritant - skin irritation and eye damage  |   |             |             |
| <b>SECTION 14</b> | <b>Transport information</b>                         |   |   |             |             |
|                   | <b>Regulatory information</b>                        | <b>ADR/RID</b>  | <b>ADNR</b>   | <b>IMDG</b> | <b>IATA</b> |
| <b>14.1</b>       | UN number  | -   |   |             |             |
| <b>14.2</b>       | UN proper shipping name                              | -   |   | -           |             |
| <b>14.3</b>       | Transport hazard class(es)                           |   |   |             |             |
|                   | Class  | -   |   | -           |             |
|                   | Label  | -   |   | -           |             |

## PK FERTILIZER

|                   |   |  |
|-------------------|---|--|
| <b>14.4</b>       | <b>Packing group</b>  | -  |
| <b>14.5</b>       | <b>Environmental hazards</b>  | Product not classified as hazardous to the aquatic environment.                                  |
| <b>14.6</b>       | <b>Special precautions for user</b>   | Not defined. See the relevant information, such as handling, in other sections of this document. |
| <b>14.7</b>       | <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                             | Not applicable.  |
| <b>SECTION 15</b> | <b>Regulatory information</b>   |  |
| <b>15.1</b>       | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |  |
|                   | <b>GB Regulation (EC) No 1907/2006 (REACH)</b>  | This product complies with the UK REACH Regulation.  |
|                   | <b>Named dangerous substances - ANNEX VI (CLP)</b>  | Not applicable.  |
|                   | <b>SEVESO Category</b>  | Not applicable.  |
|                   | <b>Qualifying quantity (tonnes) for the application of lower-tier requirements</b>                    | Not applicable.  |
|                   | <b>Qualifying quantity (tonnes) for the application of upper-tier requirements</b>                    | Not applicable.  |
|                   | <b>Regulation (EC) No 1907/2006 - ANNEX XVII</b>  | Not applicable.  |
| <b>15.2</b>       | <b>Chemical safety assessment</b>   |  |
|                   | A chemical safety assessment has not been performed as this is a mixture.                             |  |
| <b>SECTION 16</b> | <b>Other information</b>  |  |
|                   | <b>Relevant phrases</b>   | H318 Causes serious eye damage.  |



## PK FERTILIZER

|  |   |  |
|--|---|--|
|  | <p><b>Abbreviations and acronyms</b></p>  | <p>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).<br/>           STP: Sewage treatment plant.<br/>           OECD: Organisation for Economic Co-operation and Development.<br/>           IMDG: International Maritime Code for Dangerous Goods.<br/>           IATA: International Air Transport Association.<br/>           GHS: Globally Harmonised System of Classification and Labelling of Chemicals.<br/>           CAS: Chemical Abstracts Service (division of the American Chemical Society).<br/>           DNEL: Derived No-Effect Level (UK REACH).<br/>           PNEC: Predicted No-Effect Concentration (UK REACH).</p> |
|  | <p><b>Data compared to the previous version altered</b></p>   | <p>Adaptation to Regulation (EC) No. 2015/830.</p>   |
|  | <p><b>References</b></p>  | <p>This safety data sheet has been prepared in accordance with:<br/>           - ANNEX II: Guidance for the preparation of Safety Data Sheets of Regulation (EC) No 1907/2006 (Regulation (EU) 2020/878) based on the data included in the chemical safety report of registered substances.<br/>           - Guidance available on the European Chemicals Agency (ECHA) website: (<a href="http://echa.europa.eu/">http://echa.europa.eu/</a>).<br/>           - Guidance for the compilation of safety data sheets for fertilizer materials (<a href="http://www.fertilizerseurope.com">www.fertilizerseurope.com</a>).</p>   |
|  | <p><b>Methods used for the classification of the mixture (Article 9 of Regulation (EC) No 1272/2008)</b></p>          | <p>Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).</p>  |
|  | <p><b>Advice on any training appropriate for workers to ensure protection of human health and the environment</b></p> | <p>Minimum training in the prevention of occupational hazards is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product label.</p>  |

The information contained in this safety data sheet is provided in good faith and its accuracy is based on knowledge of the product at the time of publication. The information presented is only intended to describe the product from the point of view of human and environmental protection and safety, and therefore cannot be regarded as product specifications. It does not imply acceptance of any commitment or legal responsibility on the part of the Company, for the consequences of its use or misuse in any circumstances. The information provided is considered accurate and current at the time of this edition, referring only to the product and may not be valid in compositions or formulations with other products. The responsibility for its use belongs to the users.