SAFETY DATA SHEET
Compound Fertiliser, Granular 15-15-15

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Compound Fertiliser, Granular 15-15-15</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Identified uses</th>
<th>Uses advised against</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertiliser</td>
<td>None.</td>
<td>Non-hazardous product.</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Nutrien Europe SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avenue Louise 326/36</td>
</tr>
<tr>
<td>1050 Bruxelles</td>
</tr>
<tr>
<td>Belgium</td>
</tr>
<tr>
<td>Tel : +32 (0)2 646 70 00</td>
</tr>
<tr>
<td>Fax : +32 (0)2 646 68 60</td>
</tr>
<tr>
<td><a href="mailto:commercial@nutrien.eu">commercial@nutrien.eu</a></td>
</tr>
<tr>
<td>e-mail address of person responsible for this SDS : <a href="mailto:productssafety@nutrien.com">productssafety@nutrien.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

<table>
<thead>
<tr>
<th>National advisory body/Poison Centre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrien Safety Data Sheets are available in many languages at <a href="https://agproducts.nutrien.com/products/Physicians">https://agproducts.nutrien.com/products/Physicians</a>, Poison Centres, or the Public may contact Nutrien’s Global Emergency Response Number 24/7/365 for service in many languages at +1 303 389 1654</td>
</tr>
<tr>
<td>AUSTRIA +43 1 406 43 43</td>
</tr>
<tr>
<td>AZERBAIJAN +994 125 979 924</td>
</tr>
<tr>
<td>BELARUS +375 17 287 00 92</td>
</tr>
<tr>
<td>BELGIUM +32 70 245 245</td>
</tr>
<tr>
<td>BULGARIA +359 2 9154 378; +359 887 435 325</td>
</tr>
</tbody>
</table>
SECTION 1: Identification of the substance/mixture and of the company/undertaking

CROATIA  +358 1 2348 342
CZECH REPUBLIC  +420 22 49 192 93
DENMARK  +45 82 12 12 12
ESTONIA  16662; +372 62 69 379
FINLAND  +358 9 471977
FRANCE
  Angers  +33 (0)2 41 48 21 21
  Bordeaux  +33 (0)5 56 96 40 80
  Lille  0800 59 59 59 (national callers)
  Lyon  +33 (0)4 72 11 69 11
  Marseille  +33 (0)4 91 75 25 25
  Nancy  +33 (0)3 83 22 50 50
  Paris  +33 (0)1 40 05 48 48
  Rennes  +33 (0)2 99 59 22 22
  Strasbourg  +33 (0)3 88 37 37 37
  Toulouse  +33 (0)5 61 77 74 47
GEORGIA  +995 99 53 33 20
GERMANY
  Berlin  +49 30 192 40
  Bonn  +49 228 192 40
  Erfurt  +49 361 730 730
  Freiburg  +49 761 192 40
  Göttingen  +49 551 192 40
  Homburg (Saar)  +49 6841 192 40
  Mainz  +49 6131 192 40
  Munich  +49 89 192 40
GREECE  +30 21 07 79 37 77
HUNGARY  +36 80 20 11 99
ICELAND  +354 543 22 22
IRELAND  +353 1 837 9964 (medical professionals) +353 1 809 2166 (public)
ISRAEL  +972 4 854 19 00
ITALY
  Bergamo  +39 800 883 300
  Firenze  +39 55 794 7819
  Foggia  +39 881 732 326
  Genoa  +39 10 563 62 45
  Milan  +39 02 6610 1029
  Padova  +39 49 827 50 78
  Pavia  +39 38 224 444
  Rome  +39 06 305 43 43
  Turin  +39 011 663 7637
KAZAKHSTAN  +7 3272 925 868
LITHUANIA  +370 5 236 20 52; +370 687 533 78
NETHERLANDS  +31 30 274 88 88
NORWAY  +47 22 59 13 00
POLAND
  Gdansk  +48 58 682 04 04
  Krakow  +48 12 411 99 99
  Łódz  +48 42 63 14 724
  Sosnowiec  +48 32 266 11 45
  Warszawa  +48 22 619 66 54
  Wroclaw  +48 71 343 30 08
PORTUGAL  808 250 143 (national callers)
ROMANIA  +40 212 106 282
RUSSIAN FEDERATION
  Ekaterinburg  +7 343 229 98 57
  Moscow  +7 495 628 1687
  Saint-Petersburg  +7 921 757 3228
SERBIA  +381 11 3608 440
SLOVAKIA  +421 2 5477 4166
SLOVENIA  +386 41 635 500

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

<table>
<thead>
<tr>
<th>Country</th>
<th>Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAIN</td>
<td>+34 91 562 0420</td>
</tr>
<tr>
<td>SWEDEN</td>
<td>+46 (0)10 456 6700</td>
</tr>
<tr>
<td>SWITZERLAND</td>
<td>+41 44 251 51 51 (in Switzerland dial 145)</td>
</tr>
<tr>
<td>THE FORMER YUGOSLAVIA</td>
<td>+38 923 147 635</td>
</tr>
<tr>
<td>TURKEY</td>
<td>+90 0312 433 70 01 or 0 800 314 7900</td>
</tr>
<tr>
<td>UNITED KINGDOM</td>
<td>844 892 0111</td>
</tr>
<tr>
<td>Belfast</td>
<td>844 892 0111</td>
</tr>
<tr>
<td>Birmingham</td>
<td>844 892 0111</td>
</tr>
<tr>
<td>Edinburgh</td>
<td>844 892 0111</td>
</tr>
<tr>
<td>Newcastle Upon Tyne</td>
<td>+44 191 2606182; +44 191 2606180</td>
</tr>
<tr>
<td>Penarth</td>
<td>844 892 0111</td>
</tr>
</tbody>
</table>

**Supplier**

**Telephone number**: Nutrien Europe SA

**Emergency telephone numbers**: Transportation: 00-1-303-389-1654
Medical: 00-1-303-389-1654

**Supplemental label elements**: Safety data sheet available on request.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Not classified.

The product is NOT classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms**: Not applicable.

**Signal word**: Not applicable.

**Hazard statements**

**Precautionary statements**

**General**: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention**: Not applicable.

**Response**: Not applicable.

**Storage**: Not applicable.

**Disposal**: Not applicable.

**Supplemental label elements**: Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**: Not applicable.

**Special packaging requirements**

**Compound Fertiliser, Granular 15-15-15**

### SECTION 2: Hazards identification

- **Containers to be fitted with child-resistant fastenings**: Not applicable.
- **Tactile warning of danger**: Not applicable.

#### 2.3 Other hazards

- **Other hazards which do not result in classification**: Not available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulphate</td>
<td>REACH Reg. #01-2119455044-46-XXXX EC No.: 231-984-1 CAS #: 7783-20-2</td>
<td>28-40</td>
<td>Non-hazardous substance.</td>
<td>[A]</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>EC No.: 231-211-8 CAS #: 7447-40-7</td>
<td>25</td>
<td>Non-hazardous substance.</td>
<td>[A]</td>
</tr>
<tr>
<td>Diammonium hydrogenorthophosphate</td>
<td>REACH Reg. #: 01-2119490974-22-XXXX EC No.: 231-987-8 CAS #: 7783-28-0</td>
<td>10-23</td>
<td>Non-hazardous substance.</td>
<td>[A]</td>
</tr>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>REACH Reg. #: 01-2119488166-29-XXXX EC No.: 231-764-5 CAS #: 7722-76-1</td>
<td>5-16</td>
<td>Non-hazardous substance.</td>
<td>[A]</td>
</tr>
<tr>
<td>Urea</td>
<td>REACH Reg. #: 01-2119463277-33-XXXX EC No.: 200-315-5 CAS #: 57-13-6</td>
<td>2-6</td>
<td>Non-hazardous substance.</td>
<td>[A]</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

**Type**

[A] Constituent  
[B] Impurity  
[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **Eye contact**: May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

- **Inhalation**: No special measures are typically indicated. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

- **Skin contact**: Wash with soap and water.

Section 4: First aid measures

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: May cause irritation due to mechanical action.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. For professional, multilingual, medical support, in case of medical emergencies involving Nutrien products, telephone the Nutrien global 24 hour Emergency Number: 00-1-303-389-1654.

Specific treatments: No specific treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Decomposition products may include the following materials:
- Sulfur oxides
- Nitrogen oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: No specific fire or explosion hazard.

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Version: 3.5
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: May be harmful to the environment if released in large quantities. See also the information in "For non-emergency personnel".

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air). Water polluting material. Collect spillage.

6.3 Methods and material for containment and cleaning up

small spill: Move containers from spill area. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recover the material and use it for its intended purpose.

or

Place spilt material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor.

large spill: No additional information.

6.4 Reference to other sections: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures: Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Hygroscopic. Keep container tightly closed.

Advice on general occupational hygiene: 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport.

Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

7.3 Specific end use(s)

Recommendations: Fertiliser.

Industrial sector specific solutions: Not applicable. Non-hazardous product.
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>No exposure limit value known.</td>
<td>Check your local regulations to determine if exposure limits exist for soluble dusts.</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs/DMELs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>21,3 mg/ kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Diammonium hydrogenorthophosphate</td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>6,1 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>11,2 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Urea</td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>292 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>125 mg/m³</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

DNEL/DMEL Summary: Very low toxicity to humans or animals.

PNECs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Compartment Detail</th>
<th>Value</th>
<th>Method Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium dihydrogen orthophosphate</td>
<td>Fresh water</td>
<td>1,7 mg/l</td>
<td>Assessment Factors</td>
</tr>
<tr>
<td>Diammonium hydrogenorthophosphate</td>
<td>Fresh water</td>
<td>1,7 mg/l</td>
<td>Assessment Factors</td>
</tr>
<tr>
<td>Ammonium sulphate Ammonium sulphate</td>
<td>Freshwater</td>
<td>0,312</td>
<td>Assessment Factors</td>
</tr>
<tr>
<td>Urea</td>
<td>Fresh water</td>
<td>0,47 mg/l</td>
<td>Assessment Factors</td>
</tr>
</tbody>
</table>

PNEC Summary: Low acute toxicity to fish.

8.2 Exposure controls

Appropriate engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Possible: safety glasses with side-shields

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
SECTION 8: Exposure controls/personal protection

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
- Physical state: Solid.
- Colour: Off-white to Pink
- Odour: Odourless.
- Odour threshold: Not available.
- pH: 7 [Conc. (% w/w): 10%]
- Melting point/freezing point: 190°C
- Initial boiling point and boiling range: Decomposes.
- Flash point: [Product does not sustain combustion.]
- Evaporation rate: Not available.
- Flammability (solid, gas): Non-flammable.
- Upper/lower flammability or explosive limits: Not applicable. No flammable ingredients present.
- Vapour pressure: Not available.
- Vapour density: Not available.
- Relative density: 1.6
- Solubility(ies): Easily soluble in the following materials: hot water.
  Soluble in the following materials: cold water.
- Partition coefficient: n-octanol/water: Not available.
- Auto-ignition temperature: Not applicable.
- Decomposition temperature: 155°C
- Viscosity: Not available.
- Explosive properties: No specific fire or explosion hazard.
- Oxidising properties: None. No oxidising ingredients present.

9.2 Other information
- Solubility in water: Soluble in water in any proportion.
  No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity: Not considered to be reactive.

10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: No specific data.
SECTION 10: Stability and reactivity

10.5 Incompatible materials: May be incompatible with some materials of construction. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.

Incompatible with:
- strong acids
- strong alkalis

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium hydrogenorthosphate</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male, Female</td>
<td>&gt;5 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td>LD50 Dermal</td>
<td></td>
<td>Rat - Male, Female</td>
<td>&gt;5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>LD50 Oral</td>
<td></td>
<td>Mouse - Male, Female</td>
<td>3040 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>LD50 Oral</td>
<td></td>
<td>Rat - Male, Female</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Urea</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>8471 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Very low toxicity to humans or animals. Effects are not sufficient for classification as hazardous.

Acute toxicity estimates: Not available.

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium hydrogenorthosphate</td>
<td>Skin - Oedema</td>
<td>Rabbit</td>
<td>0</td>
<td>72 hours</td>
<td>-</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>Eyes - Adverse effects-None.</td>
<td>Rabbit</td>
<td>0</td>
<td>72 hours</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Adverse effects-None.</td>
<td>Rabbit</td>
<td>0</td>
<td>72 hours</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin irritation-Adverse effects-None.</td>
<td>Rabbit</td>
<td>0</td>
<td>72 hours</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary:
- Skin: Non-irritating to the skin.
- Eyes: Non-irritating to the eyes.
- Respiratory: No known significant effects or critical hazards.

Sensitisation

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Route of exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium hydrogenorthosphate</td>
<td>Skin</td>
<td>Mouse</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

Conclusion/Summary:
- Skin: Non-sensitiser to skin.
- Respiratory: Non-sensitiser to lungs.

Mutagenicity

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Date of previous issue: 8/2/2018
Version: 3.5
SECTION 11: Toxicological information

### Potential acute health effects

**Inhalation:**
- No significant effects.

**Ingestion:**
- May cause irritation due to mechanical action.

**Skin contact:**
- No specific data.

**Eye contact:**
- May cause irritation due to mechanical action.

**Inhalation**
- No specific data.

**Skin contact**
- No specific data.

**Ingestion**
- No specific data.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

- **Skin contact:**
- **Inhalation:**

### Potential acute health effects

#### Short term exposure

**Potential immediate effects**
- See above.

**Potential delayed effects**
- See above.

#### Long term exposure

- No specific data.

### Symptoms related to the physical, chemical and toxicological characteristics

- **Eye contact:**
- May cause irritation due to mechanical action.

- **Inhalation:**
- No specific data.

- **Skin contact:**
- No specific data.

- **Ingestion:**
- No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Short term exposure**
- **Potential immediate effects**
- **Potential delayed effects**
- **Long term exposure**
- No specific data.
**SECTION 11: Toxicological information**

**Potential immediate effects**: See above.

**Potential delayed effects**: See below.

**Potential chronic health effects**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium hydrogenorthophosphate</td>
<td>Chronic NOAEL Oral</td>
<td>Rat - Male, Female</td>
<td>250 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**: No known significant effects or critical hazards.

**General**: No known significant effects or critical hazards.

**Carcinogenicity**: No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Other information**: Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium hydrogenorthophosphate</td>
<td>Acute LC50 1700 mg/l Fresh water</td>
<td>Fish - Cirrhinus mrigala/L. Rohita - Fry</td>
<td>96 hours</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>Acute LC50 53 mg/l</td>
<td>Fish-Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Conclusion/Summary**: Practically non-toxic to aquatic organisms. Based on available data, the classification criteria are not met.

**12.2 Persistence and degradability**

**Conclusion/Summary**: According to EC criteria: Readily biodegradable

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

**Soil/water partition coefficient (Koc)**: Not available.

**Mobility**: Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT**: Not applicable. Inorganic salt.

**vPvB**: Not applicable. Inorganic salt.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

**13.1 Waste treatment methods**

**Product**
SECTION 13: Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: Non-hazardous waste

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 10 99</td>
<td>wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture, wastes not otherwise specified</td>
</tr>
</tbody>
</table>

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>ICAO</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>No.</th>
<th>No.</th>
<th>No.</th>
<th>No.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Additional information</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</th>
</tr>
</thead>
</table>

| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not available. |
SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV
None of the components are listed.

Substances of very high concern
None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not applicable.

Other EU regulations

Europe inventory
All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)
Not listed.

Prior Informed Consent (PIC) (649/2012/EU)
Not listed.

Seveso Directive
This product is not controlled under the Seveso III Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

International lists

National inventory

Australia
All components are listed or exempted.

Canada
All components are listed or exempted.

China
All components are listed or exempted.

Japan
Japan inventory (ENCS): All components are listed or exempted.
Japan inventory (ISHL): Not determined.

Malaysia
Not determined.

New Zealand
All components are listed or exempted.

Philippines
All components are listed or exempted.

Republic of Korea
All components are listed or exempted.

Taiwan
All components are listed or exempted.

Turkey
Not determined.

United States
All components are listed or exempted.
SECTION 15: Regulatory information

15.2 Chemical safety assessment

Complete.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data:
- ECHA, European Chemicals Agency, Classification and Labelling Database
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), latest revision.
- American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, latest edition.
- ERG 2016 Emergency Response Guidebook
- The Fertilizer Institute, Toxicity Testing Results, March 2003
- Substance Information Exchange Forum Database

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 3/22/2019
Date of previous issue : 8/2/2018
Version : 3.5
SECTION 16: Other information

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