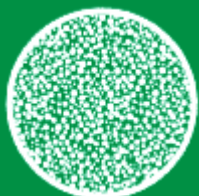


PRINT DATE :  
REVISION DATE : 13.03.24  
VERSION : 2.0 / EN (NZ)



# SAFETY DATA SHEET

according to ST/SG/AC.10/30/REV.10

## HPNP™

### SECTION 1: Identification of the substance and of the company

#### 1.1 Product identifier:

##### Mixture

Mixture name : HPNP™  
Other means of identification : Not applicable.  
Hazard components for labelling : Urea Phosphate

#### 1.2 Relevant Identified uses

Relevant identified uses : Fertilizer  
Uses advised against : Not for consumption.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier

##### Manufactured by:

Name: Agri Technovation (Pty) Ltd  
Address: Agri Business Park, 5 Louw Street,  
Wellington Industrial Area  
South Africa  
7654  
Telephone: (+27) 21 300 0543  
(+64) 27 620 0567

#### 1.4 EMERGENCY TELEPHONE NUMBER

National Poisons and Hazardous Chemicals Information Centre  
Dunedin Phone: 0800 POISON (0800 764-766)  
24 hr Emergency Response: 0800 CHEMCALL (0800 243 622)

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance

Classification according to ST/SG/AC.10/30/REV.10	Classification procedure
Skin corrosion, Category 1B	Based on concentration threshold

#### 2.2 Label elements

Labelling according to ST/SG/AC.10/30/REV.10

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Trade name: HPNP  
Product No: N/A  
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## Hazard pictograms:



## Signal word:

Danger

## Hazard statements:

Causes severe skin burns and eye damage

## Precautionary statements:

Do not breathe dusts. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or doctor to specify the appropriate source of emergency medical advice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents or container according to local regulations.

## Supplemental Hazard information:

No supplementary hazard information.

## Special rules for supplemental label elements for certain mixtures:

None known.

## Additional labelling:

Keep out of reach of children.

## 2.3 Other hazard

None known.

## SECTION 3: Composition/ Information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixture

#### Description of mixture:

Dry blend of inorganic salts consisting of nitrogen, phosphorus, and zinc.

Substance Name	CAS Number	Concentration	Classification according to ST/SG/AC.10/30/REV.10
Urea Phosphate	4861-19-2	<30%	Skin corrosion, Category 1B

## SECTION 4: First aid measured

### 4.1 Description of first aid measures

#### General information

Take precautions to ensure your own safety when helping another person. Always wear appropriate personal protective equipment (see Section 8). If medical advice is needed, have Safety Data Sheet or product label at hand and provide medic treatment already administered.

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## Following inhalation

Remove source of exposure. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or if you feel unwell: seek medical advice.

## Following skin contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for 20 minutes. If skin irritation or rash occurs: Get medical advice. Wash contaminated clothing before re-use {or discard}

## Following eye contact

Rinse eyes cautiously with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into unaffected eye or onto the face. If eye irritation persists: Get medical advice. Immediately call a POISON CENTRE or doctor to specify the appropriate source of emergency medical advice.

## Following ingestion

If swallowed: Rinse mouth. Call a poison doctor if you feel unwell.

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

No information available on this product.

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

No information available on this product.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Information not provided regarding the combustion behaviour of the mixture.

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

None available.

### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and special tightly sealed suit.

## SECTION 6: Accidental release measures

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

#### Protective equipment

Wear respiratory protection, eye protection, hand protection and body protection.

See section 8.2 of this SDS.

#### Emergency procedures

Evacuate all individuals. Warn surrounding areas. Isolate the area. Put protective measures in place. Only individuals with suitable personal protective equipment should be allowed into the affected area. Remove the source if safe to do so and provide adequate ventilation in closed spaces. Pick up without creating dust. Afterwards ventilate area and wash spill area.

### 6.2 Environmental precautions

Low hazard to water. Inform the responsible authorities when very large quantities get into water, drainage, sewer, or the ground.

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

#### For containment

Use suitable closed, labelled containers for disposal in accordance to national and local regulations.

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## For cleaning up

Use suitable protective equipment while cleaning, if necessary. See section 8.2 of this SDS. Wipe clean with cloth or paper towel. Tested industrial vacuum cleaner or suction device can be used as alternative. The use of a blower for cleaning is not recommended.

## 6.4 Reference to other sections

See section 8.2 for information on personal protective.

See section 13 for disposal methods.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Heed advice on general occupational hygiene. Fill only into clearly marked containers. Label containers and pipelines clearly. Do not leave container open. Avoid rising dust. If release cannot be prevented, then it should be suctioned off at the point of exit. Provide good ventilation in work areas. Washing facility at the workplace is required. The locations must be sign posted.

#### Fire preventions

Keep away from open flames or sources of ignition. No welding in the working area. Only work with vessels and lines after these have been thoroughly rinsed. Work done with fire or open flame should only be carried out with written permission if the risk of the fire or explosion cannot be eliminated. Keep away from combustible materials. Filter the solutions only with glass wool, glass chips, or ceramic filters. Do not use any filtration materials made of paper which risks ignition after drying. Do not leave any cleaning rags lying in the open. Empty bags containing remnants tend to self-ignite.

#### Environmental precautions

Dispose in accordance with national and local regulations.

#### Advice on general occupational hygiene

Take care to keep workplace clean and dry. Wear personal protective equipment. Wash skin with soap and water before breaks and at the end of work and apply fatty skin-care products after washing. Foods, beverages, and other articles of consumption must not be consumed at the work areas. Suitable areas are to be designated for these purposes. Remove contaminated clothing and protective equipment before entering eating areas.

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

#### Technical measures and storage conditions

Store and transport in closed containers at room temperature.

#### Requirements for storage rooms and vessels

Do not use any food containers to prevent a mistake. Containers must be labelled clearly and permanently. Keep container tightly closed in a dry and well-ventilated place. Avoid contamination with other materials.

#### Packaging materials

Glass, PE, PP and PVC.

#### Materials to avoid

- Pharmaceuticals, foods, and animal feeds including additives.
- Infectious, radioactive and explosive substances.
- Strongly oxidizing substances of storage class 5.1A.
- Organic peroxides and self-reactive substances.

### 7.3 Specific end uses

See section 1.2. No additional information.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

The mixture does not, within the current knowledge of the supplier, contain substances above their cut-off concentration limit fulfilling the criteria of hazard classes according to the **ST/SG/AC.10/30/REV.10** regulation or present a health risk below the cut-off concentration limit other than the raw materials and hazards listed. Substances that do not fall within classification criteria are not specified in this document to protect confidentiality.

### 8.2 Exposure controls

#### Appropriate engineering controls

All ventilation should be designed in accordance with OSHA standard. Use local exhaust at filling zones and where leakage and dust formation are probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below limits.

#### Components with occupational exposure limits

None.

#### Personal protective equipment

##### Eye / Face protection

Wear glasses with side protection.

##### Skin protection

Hand protection

The use of resistant protective gloves is recommended. Skin protection cremes do not protect as effectively against the substance as protective gloves. In case of doubt contact the gloves' manufacturer.

Wear duration with occasional contact (splash): 8 hours

Be aware that liquids may penetrate gloves. Frequent change is advisable.

Body protection

Wear an overall or a lab coat

##### Respiratory protection

In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Wear respiratory protection during operations where spraying or misting occurs.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance:

**Physical state** : Crystalline powder      **Color** : White to off-white/slightly yellow

**Odor** : No specific odour.      **Odor threshold** : No data available.

	Value	Method	Temperature	Remarks
<b>pH (5% solution)</b>	2.4 – 2.8	Measured	20°C	
<b>Melting point/freezing point</b>	Not available.			
<b>Initial boiling point/boiling range</b>	Not relevant.			
<b>Flash point</b>	Not available.			
<b>Evaporation rate</b>	Not available.			
<b>Flammability (solid, gas)</b>	Not available.			
<b>Upper/lower flammability or explosive limits</b>	Not relevant.			
<b>Vapor pressure</b>	Not relevant.			
<b>Vapor density</b>	Not available.			
<b>Relative density</b>	Not available			

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<b>Solubility(ies)</b>	35 g per 100 ml water	Measured	20°C	
<b>Partition coefficient: n-octanol/water</b>	Not available.			
<b>Auto-ignition temperature</b>	Not available.			
<b>Decomposition temperature</b>	Not available.			
<b>Viscosity</b>	Not relevant.			
<b>Explosive properties</b>	Not relevant.			
<b>Oxidizing properties</b>	Not available.			

## 9.2 Other information:

None.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product.

### 10.2 Chemical stability

Stable under ambient conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid:

None known.

### 10.5 Incompatible materials:

None known.

### 10.6 Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Main routes of exposure:

No data available for occupational handling.

#### Acute toxicity: Data for hazardous substances

The mixture does not, within the current knowledge of the supplier, contain substances above their cut-off concentration limit fulfilling the criteria of hazard classes according to the ST/SG/AC.10/30/REV.10 regulation or present a health risk below the cut-off concentration limit.

#### Other information

No other information.

#### Assessment Classification:

Based on the available data, the classification criteria according to ST/SG/AC.10/30/REV.10 are not met.

#### Hazard classification

Classification	Hazard Description
Acute toxicity (oral)	Based on the available data, the classification criteria are not met.
Acute toxicity (dermal)	Based on the available data, the classification criteria are not met.

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Skin corrosion/irritation	Based on the concentration threshold of the raw material listed, the mixture can be classified as Skin corrosion, Category 1B.
Serious eye damage/irritation	Based on the available data, the classification criteria are not met.
Respiratory sensitization	Based on the available data, the classification criteria are not met.
Skin sensitization	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity	Based on the available data, the classification criteria are not met.
Carcinogenicity	Based on the available data, the classification criteria are not met.
Reproductive toxicity	Based on the available data, the classification criteria are not met.
STOT – single exposure	Based on the available data, the classification criteria are not met.
STOT – repeated exposure	Based on the available data, the classification criteria are not met.

## Other information:

None known.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity:

No information available on this product.

#### Assessment / Classification

Classification is not mandatory.

### 12.2 Persistence and degradability

Not classifiable due to data lacking.

### 12.3 Bio accumulative potential

Not classifiable due to data lacking.

### 12.4 Mobility in soil

Not classifiable due to data lacking.

### 12.5 Results of Persistent, Bioaccumulating and Toxic and very Persistent and very Bioaccumulating assessment

Not classifiable due to data lacking.

### 12.6 Other adverse effects:

None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations.

Collection of small amounts of product:

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Do not put waste into sink or dust bin. Collect in container. Collection vessels must be clearly labelled with a systematic description of their contents. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.

## SECTION 14: Transport information

**UN Number:** Not applicable

**UN Proper shipping name:** Not applicable

**Transport hazard class:** Not regulated as a dangerous good.

**Packaging group:** Not regulated as a dangerous good.

**Environmental hazards:** Not regulated as a dangerous good.

**Transport in bulk according to IMO instrument:** Not available.

**DOT:** Not regulated as a hazardous material by DOT.

**IATA:** Not regulated as a dangerous good.

**IMDG:** Not regulated as a dangerous good.

**Special precautions for user**

None known.

## SECTION 15: Regulatory information

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

GHS: ST/SG/AC.10/30/REV.10

### 15.2 Chemical Safety Assessment

No chemical safety assessment was completed for this product.

## SECTION 16: Other information

### 16.1 Indication of changes

First revision

### 16.2 Abbreviations and acronyms

ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (division of the American Chemical Society)
DOT	Department of transportation
EC50	Half maximal effective concentration
GHS	Globally Harmonised System
IATA	International Airport Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration required to kill 50% of the population

### 16.3 Key literature references and sources for data

C&L Inventory - ECHA [WWW Document], n.d. URL <https://echa.europa.eu/information-on-chemicals/cl-inventory-database> (accessed 6.6.19).

GESTIS Substance database [WWW Document], n.d. URL [http://gestis-en.itrust.de/nxt/gateway.dll/gestis\\_en/000000.xml?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$vid=gestiseng:sdbeng$3.0) (accessed 6.6.19).

### 16.4 Classification for mixtures and used evaluation method according to ST/SG/AC.10/30/REV.10

Classification based on calculation or concentration thresholds. See SECTION 2.1 (classification).

### 16.5 Relevant H-phrases (number and full text)



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None

## 16.6 Training advice

Not relevant.

## 16.7 Further information

This safety data sheet summarizes to the best of our knowledge at the date of issue, the chemical health and safety hazards of the product and general guidance on how to safely handle the material in the workplace.