

Producer: **Pakarab Fertilizers Limited**

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Plant Site: Pakarab Fertilizers Ltd; Khanewal Road, Multan-Pakistan.

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IDENTIFICATION OF PRODUCT:

Prilled Nitro-phosphate

Product Code: **PNP**

1. IDENTIFICATION OF PRODUCT:

Prilled Nitro phosphate

1.1 General Information:

Inorganic Fertilizer which do contain Nitrogen and P2O5

1.2 Company Identification (Name & Address):

PAKARAB FERTILIZERS Ltd. Khanewal Road, Multan-Pakistan.

1.3 Contact Numbers:

Tel.: +92-61-9220022

Fax: +92-61-9220021

Head Office, Multan, Tel. : 061 4512031

2. COMPOSITION / COMPONENT INFORMATION:

2.1 General Characteristics of the Chemical Substances:

Components	Weight %
Total Nitrogen	22.0%
Total P2O5	20.0%
Moisture	1.0% (Max)

Product may contain some or all of the following ingredients.

- MonoAmmonium phosphate
- MonoCalcium phosphate
- DiCalcium phosphate
- TriCalcium phosphate
- Ammonium nitrate

3. HAZARDS IDENTIFICATION. POTENTIAL HEALTH EFFECTS:

PNP is non-combustible, non-flammable solid product and product of low toxicity and acidic.

Emergency:

-Not Established

Precautions:

-Avoid breathing dust

-Avoid ingestion

-Avoid Contact with eyes

-use by adequate ventilation

Overexposure Conditions:

-Acute: unknown

-Chronic: Unknown

Inhalation:	-Dust may cause respiratory irritation
Skin Contact:	-may cause skin irritation
Eye Contact:	-may irritate Eyes
Ingestion:	-may cause irritation of the gastrointestinal tract and vomiting

4. FIRST AID:

PNP is non-combustible, non-flammable solid product and product of low toxicity and acidic.

4.1 Inhalation:

Move the affected person to fresh air and provide oxygen if breathing is difficult. Treat symptomatically. Get medical Assistance promptly.

4.2 Skin Contact:

Wash the affected area with soap and water. If irritation persists obtain medical advice.

4.3 Eye contact:

Flush with plenty of water at least for 15 min. if it is necessary seek medical Assistance

4.4 Ingestion:

Give large quantities of water to the patient if conscious. Induce vomiting and seek for medical assistance. Do not leave the affected person alone.

4.5 Further Medical Treatment:

SYMPTOMATIC treatment and supportive therapy as indicated, if it is necessary.

4.6 Specific First aid equipment at the working place:

Availability of Flushing water and soap.

5. FIRE-FIGHTING MEASURES:

5.1 Appropriate Fire Fighting Resources:

The product is non-flammable, but in event of fire all standard fire-fighting resources may be used.

5.2 Inappropriate Fire Fighting Resources:

No data available.

5.3 Special Fire Fighting protection:

Personnel must be equipped with appropriate protective clothing and respiratory protection.

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal protection:

-use dust masks, protective clothing, goggles, etc.

6.2 Environmental protection:

Do not allow to enter sewage, surface or ground water. Do not contaminate with potable water. It can stimulate the process of alga's growth.

6.3 Spillage Cleaning procedure:

Sweep and collect the spilled material in suitable closed labeled container for reuse.

7. HANDLING AND STORAGE:

7.1 Handling:

- To be used:

- Dust protective Masks;
- Protective gloves;
- Safety goggles
- Protective Clothing;
- Do not store near food stuff.

7.2 Storage:

-Store in a cool, dry, well-ventilated place. Avoid contact with moisture.

8.EXPOSURE CONTROL AND PERSONAL PROTECTION:

8.1 Exposure Control:

Avoid skin and eye contact an inhalation of dust. Wear safety glasses. Respiratory protection is required if airborne concentration is high or unknown. Dust musk should be worn in dust environment. Always wash hands before smoking, eating, drinking or using the toilet facilities. Use proper ventilation. Take a shower after work by using plenty of soap and water.

8.1.1 **Respiratory protection:** use a dust protective mask

8.1.2 **Hand Protection:** protective Gloves

8.1.3 **Eye/Face Protection:** Safety Goggles and / or Full face shield

8.1.4 **Skin and body protection:** protective clothing

8.1.5 **Control by impact of substance (product0 on the environment;**

If large quantity of spilled material penetrates the soil; sewage, surface or ground water this will increase the phosphates and ammonium nitrate contents. The fertilizers norms must be observed.

9.PHYSICAL AND CHEMICAL PROPERTIES:

9.1 General Information:

- Appearance: Prilled Material
- Physical Condition: Solid
- Color: Light Brown to Dark Brown
- Odour: Odourless

9.2 Physical and chemical Information:

- pH: 3.5 (for 10% water solution)
- Flash Point: -no data available
- Melting Point: 90 °C
- Bulk Density: 1000 kg/m³
- Water Solubility: 60%
- Citrate Solubility: 80%

10.STABILITY AND REACTIVITY:

10.1 Stable under normal storage and handling conditions, neither combustible nor supporters of combustion. If strongly heated during a fire ammonia and NOx can evolve.

12.ECOLOGICAL INFORMATION:

12.1.Ecotoxicity:

Not found data for ecological toxicity.
 Non-Toxic to aquatic organisms.
 Soil organisms: No data available
 Plants and terrestrial animals: No data available

Other harmful effects:

- Depletion of ozone layer: **No**
- Creating of photochemical potential of ozone layer: **No**
- Possibility of global warming: **No**

12.2 Mobility:

Do not allow to penetrate sewage, surface or ground water. Do not contaminate with drinking water.

12.3 Persistence and degradability:

Persistence and degradability: Stable.

- Biotic and abiotic degradability: No data available
- Aerobic and anaerobic degradability: No data available

13. TRANSPORT INFORMATION:

Not classified as hazard material for transportation.

Packing- in WPP bags of 50 Kg.

14. OTHER INFORMATION:

The buyer takes all risks, related to the use of this product (material).

All safety regulations must be observed.

The seller is not responsible for any damages or injuries caused by the use of the product even by observing all safety regulations.

14.1 Acronyms & References used in preparation of MSDS:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#	CAS Registration Number is an assigned number to identify a material. CAS stands for Chemical Abstracts Service.
NIOSH:	National Institute for occupational Safety and health
NFPA:	National Fire Protection Association
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (OSHA)
REL:	Recommended Exposure Limit (OSHA)
TLV:	Threshold Limit Values (ACGIH)
TWA:	Time Weighted Average

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