

**MATERIAL SAFETY DATA SHEET**

**Section 1. Identification Of The Substance**

Chemical Name :  $\text{KNO}_3$  and  $\text{NH}_4\text{H}_2\text{PO}_4$   
 Trade Name : NPK- Fertilisers 13-2-44  
 Common Name : N.P.K  
 Chemical Family : Ternary Mixed Mineral Fertilizer  
 Formula : 13.2.44

**Section 2. Composition/Information On Ingredients**

Substance/mixture

| Ingredient name                           | Chemical name           | CAS number | %Formula |
|---|-------------------------|------------|----------|
| NOP( $\text{KNO}_3$ )                     | Potassium nitrate       | 7757-79-1  | 96.5%    |
| MAP( $\text{NH}_4\text{H}_2\text{PO}_4$ ) | Mono-Ammonium Phosphate | 7722-76-1  | 3.5%     |
| total Insoluble :                         |                         |            | < 0.05%  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

**Section 3. Physical DATA**

Water Solubility : Highly Soluble 99.5% at 25 °C  
 pH Value : 4.0-7.0

**Section 4. First Aid Measures**

Ingestion: Do not induce vomiting  
 Eye : flush with water .  
 Skin : flush with water .  
 Inhalation: Remove to fresh air .

For all emergency cases, it is advisable to get medical attention .

**Section 5. Fire Fighting Measures**

Flammability : Not flammable  
 Extinguishing media : Foam, Carbon dioxide, Dry chemical or Water spray (fog), as suitable to extinguishing surrounding fire.  
 Special fire fighting methods : Use self contained breathing apparatus .  
 Unusual fire or explosion hazards : None

**Section 6. Accidental Release Measures**

Clean the site with water .

**Section 7. Handling and Storage :**

Store in original container in a fresh and dry place , away from direct heat and sunlight .

**Section 8. Exposure control / personal protection**

Applicators and other handlers don't need special requirements ,  
 We recommend the use of a gloves , dust mask , safety goggles .

**Section 9. Physical and Chemical Properties**

Appearance : White color  
 Boiling point : Decomposes on heating above 197C  
 Ignition point : Non-flammable  
 Flash point : Non-flammable  
 Density (20°C) : Not Applicable  
 Corrosion : Non-corrosive

**Section 10. Stability and Reactivity**

|                      |  |
|----------------------|--|
| Chemical Stability : | Stable at normal temperatures and storage condition  |
| Condition to avoid : | Extremely heat and direct sunlight                   |
| Material to avoid :  | Reducing agent, flammable materials, combustibles.   |
| Polymerization :     | Polymerization will not occur , in the pure material |

**Section 11. Toxicological Information**

Not Toxic

**Section 12. Ecological Information**

Biodegradability: The product is biodegradable.

Ecological and biological effects: None

**Section 13. Disposal Instruction**

The product should be recycled

**Section 14. Transport Information**

UN code: 1479  
IMO: 5.1  
HS code: 31052000

**Section 15. Special Protection Information**

Respiratory Protection : Not volatile, dust mask should be used in case of dusty material.  
Eye Protection : Use safety Goggles  
Other protective equipment and precautions , wear poly propylene gloves

Proper use is as agricultural Fertilizer only.

**Disclaimer**

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