

**MATERIAL SAFETY DATA SHEET**

Rev. A

**Section 1. Identification Of The Substance**

Chemical Name :  $\text{KNO}_3$  and  $\text{NH}_4\text{H}_2\text{PO}_4$   
Trade Name (PSN): NPK 13-5-42  
Common Name : N.P.K  
Chemical Family : Ternary Mixed Mineral Fertilizer  
Formula : 13.5.42

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

Substance/mixture

Ingredient name	Chemical name	CAS number	%Formula
NOP( $\text{KNO}_3$ )	Potassium nitrate	7757-79-1	91.0%
MAP( $\text{NH}_4\text{H}_2\text{PO}_4$ )	Mono-Ammonium Phosphate	7722-76-1	9.0%
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 : Carbon dioxide, Dry chemical, Water spray or fog, as suitable to extinguishing surrounding fire.  
Special fire fighting methods : Use self contained breathing apparatus .  
Special Hazards: At exposure to high temperature it may decompose and release toxic gases.  
Reacts with combustible materials and increases combustion.

**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  
Packing group: III

## 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

## Section 16. Other information

The information stated in point 1-15 is issued from our knowledge of the product. It does not contain any guarantee for special properties. It is important that the person(s) using the above product is/are informed of the exact laws and regulations and that the product is used according to these and for no other purposes than supplied for. Proper use is as agricultural Fertilizer only.

### Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environment requirements only. However the supplier does not assume any liability what so ever for the accuracy and completeness of information contained herein. It should not therefore be construed as guaranteeing any specific property of the product. **DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. Final determination of the suitability of any material is the sole responsibility of the user . Although certain hazards are described herein we can not guarantee that these are the only hazards that exist. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use, disposal of the product.

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