

### 1: IDENTIFICATION

<b>Chemical Name</b>	Phosphorous - Potassium Mixed Water Soluble Fertilizer	<b>Trade Name</b>	<b>NPK HD 0:12:45</b>
<b>Synonyms</b>	Fertilizer	<b>Molecular Formula</b>	$P_2O_5 + K_2O$
<b>Uses</b>	Fertilizer, Crop Nutrient		
<b>Manufacturer/ Supplier</b>	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
<b>Emergency Contact</b>	9503095030	<b>E-mail</b>	<a href="mailto:info@agrostar.in">info@agrostar.in</a>

### 2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	Percent or content (w/w)
Phosphorous ( $P_2O_5$ )	12.00%
Soluble Potassium ( $K_2O$ )	45.00%

### 3: HAZARD IDENTIFICATION

**Emergency Overview:** Not Available **Route of Entry:** Eyes, Inhalation, Skin and Ingestion  
**Classification of Product:** The product is not classified as dangerous to health and environment. Non-Hazardous  
**Health Hazards:** None **Signal Word:** None  
**Other Prospective Risks:** None **Precautionary Statement:** Keep out of reach of children.

### 4: FIRST AID MEASURES

**General:** Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.  
**Inhalation:** Move person to fresh air and keep warm and at rest in a position comfortable for breathing. Immediately seek medical attention if symptoms are severe or persist.  
**Ingestion:** Rinse mouth with water thoroughly and give water to drink. Do not induce vomiting unless told to do so by doctor. Never give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.  
**Skin Contact:** In case of contact with product, wash immediately skin area with plenty of water and soap. Remove and isolate contaminated clothing and shoes. Seek medical attention.  
**Eye Contact:** Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.  
**Note to physician:** No specific Antidote. Treat symptomatically.

### 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry chemical carbon dioxide foam **Flammable Limits:** Non-Combustible  
**Unsuitable Extinguishing Media:** None known  
**Specific Hazard:** The product is not flammable. No special measures required against explosion and fire. In case of fire, oxides of carbon and potassium oxide may be released.  
**Special Procedures:** Do not discharge extinguishing water into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Move containers away from area if it can be done without risk. If possible without risk, remove containers from fire zone, cool with water spray. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. streams. Dike area to prevent water runoff.  
**Protection of Fire Fighters:** Do not breathe a fumes. Approach fire from up wind. Wear a self contained breathing apparatus and complete protective clothes.  
**Caution:** Slippery in liquid form when mixed with water.

### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment including suitable protective clothing, gloves and eye or face protection.  
**Environmental Precaution:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.  
**Methods for Cleaning-up:** Pick up the material mechanically and place in a container for proper disposal in accordance with local, state and federal regulations. Avoid generating mists.

### 7: HANDLING & STORAGE

**Handling:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with soap and water before and after handling the product. Good personal hygiene procedures must be practiced.  
**Storage:** Store in dry, cool and well-ventilated area at ambient temperatures. Protect from freezing. Keep in original container and tightly closed when not in use. Keep out of reach of children. Do not contaminate water, food or feed by storage or disposal. Use normal safety procedure and good personal hygiene.

### 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. The control exposure parameters are not defined.  
**General Protection:** Avoid contact with eyes and skin. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.  
**Personal Protection:** Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.  
**Respiratory Protection:** Respirator mask or face cloth in emergency

**Skin Protection:** Wear suitable protective working clothing including long sleeved shirt, long pants, gloves, shoes and socks to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

**Hand Protection:** Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

**Eye Protection:** In dusty condition, use safety glasses with side shields or goggles for eyes protection should be used. Safety showers and eyewash should be easily available.

**Others:** Wash clothing before reusing.

## 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b> Powder	<b>Colour:</b> Light Peach	<b>pH:</b> 6.5 - 7.5	<b>Flammability:</b> Non flammable
<b>Solubility in Water:</b> Soluble	<b>Odour :</b> Not Determined	<b>Physical State:</b> Solid	

## 10: STABILITY & REACTIVITY

<b>Stability:</b> Stable under normal circumstances.	<b>Material to Avoid:</b> Acid and Oxidants
<b>Hazardous Decomp. Products:</b> Not available.	<b>Reactivity:</b> React with alkalis. Aqueous solution of this product may be corrosive to metals.
<b>Conditions to Avoid:</b> Direct sunlight, Excessive heat and freezing, Moisture.	<b>Hazardous Polymerization:</b> Has not been reported

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 5000	Rat inhalation LC50 [mg/l/4h] : Not determined	Skin irritation (rabbit): Not determined
Dermal (rat) LD50 [mg/kg]: >2000	Skin Sensitization (Guinea Pig): Data not available	Eye irritation (rabbit): Not determined
Carcinogenicity: Not Listed as Carcinogen	Repeated dose toxicity: Data not available	Mutagenicity Not applicable

## 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** No known significant effects or critical hazards

**Acute Toxicity for Fish:** Not Applicable   **Algae Growth Inhibition:** Not toxic   **Activated Sludge Respiration:** Not applicable

**Persistence and Degradability:** The substance is inorganic; therefore no biodegradation tests are applicable.

**Mobility in Soil:** Highly water soluble. Mobile in soil profile

## 13: DISPOSAL CONSIDERATION

**Waste-disposal Procedures:** Dispose of this product only according to the label or in compliance with government requirements or local regulations. Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

**Contaminated Packaging:** Empty remaining contents and the rinse containers before disposal thrice. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14: TRANSPORT INFORMATION

<b>UN No.</b> -	<b>Proper Shipping Name:</b> Plant Nutrients	<b>Regulation:</b> Not regulated by DOT
<b>Land Transport (ADR/RID):</b> Not Regulated as a Hazardous material		<b>Air Transport (IATA/ICAO):</b> Not Regulated as a Hazardous material
<b>Sea Transport (IMO/IMDG):</b> Not Regulated as a Hazardous material		

## 15: REGULATORY INFORMATION

<b>Risk Classification:</b> Substance is not classified risky.	<b>H-Statement:</b> None
<b>Risk Phrases:</b> None	<b>Safety Phrases:</b> S2, S23, S36/37/39
<b>Sudden Release of Pressure:</b> No	<b>Reactive:</b> No

## 16: OTHER INFORMATION

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. 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 the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

----- END -----