

### 1: IDENTIFICATION

<b>Chemical Name</b>	Potassium Nitrate	<b>Trade Name</b>	NPK 13:0:45 (POTASSIUM NITRATE)
<b>Synonyms</b>	Potassium Nitrate	<b>Molecular Formula</b>	KNO <sub>3</sub>
<b>Uses</b>	Fertilizer		
<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	CAS #	Percent or Content (w/w)
Potassium nitrate	7757-79-1	-

### 3: HAZARD IDENTIFICATION

**Physical/ Chemical Hazard:** H272 May intensify fire; oxidizer

**Human Health Hazard:** Not Classified

**Environment Hazard:** Not Classified

### 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. 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. Speed in removing material from skin is extremely important. 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:** Water fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

**Unsuitable Extinguishing Media:** None known.

**Specific Hazard:** Potassium nitrate is oxidizing materials. May intensify fire.

**Hazardous Thermal (de)composition:** Toxic fumes or gases 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.

**Protection of Fire Fighters:** Do not breathe a fumes. Approach fire from up wind. Wear a self contained breathing apparatus and complete protective clothes.

### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate spillage area. Use personal protective equipment including suitable protective clothing, gloves and eye or face protection. Evacuate personnel to safe areas.

**Environmental Precaution:** Keep out of all water bodies (water supplies, lakes, ponds, streams, rivers).

**Methods for Cleaning-up:** Use appropriate tools to place the spilled material into a suitable container for intended use, recycling, or disposal. In case of large spill, prevent additional the discharge of material if safe to do so. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 7: HANDLING & STORAGE

**Handling:** Open container with care to avoid generating dust. Provide adequate ventilation. 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. Keep in original container and tightly closed when not in use. Keep out of reach of children. Keep away from heat. Store away from incompatible materials (see sec.10)

### 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

**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:** Always use NIOSH/MSHA approved respiratory protection equipment .

**Skin Protection:** Wear suitable protective working clothing 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

**Appearance:** Prills or granules

**Colour:** Blue

**Odour :** No characteristic odour

**Solubility in Water:** Soluble

**Boiling Point [°C]:** Not applicable; mixture

**Physical State:** Solid

**Oxidising Properties:** Ox. Sol. 2 (mean burning time  $\leq$  that of a 2:3 mixture, by mass of potassium bromate and cellulose). As determined by test for Oxidising Properties of Solids (UN) to GLP.

## 10:STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances.

**Conditions to Avoid:** Heat

**Hazardous Decomp. Products:** The decomposition products may include toxic fumes and gases

**Material to Avoid:** Flammable/combustible materials, reducing agents, powdered metal, strong acids, organic material.

**Corrosivity:** Slightly corrosive to steel, aluminum, zinc, and copper. Non-corrosive in presence of glass or stainless steel.

**Hazardous Reactions:** Polymerization will not occur.

**Other:** Absorbs moisture from the air. Hygroscopic; Keep containers tightly closed. Avoid contact with moisture. Slow hydrolysis will produce corrosive acids

## 11: TOXICOLOGICAL INFORMATION

**Toxicological Effects:** No information available.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Skin Contact:** There may be mild irritation at the site of contact.

**Eye Contact:** There may be irritation and redness.

## 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not regarded as dangerous for the environment.

**Persistence and Degradability:** Product is biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is unlikely

**Mobility:** No information available

This product does not contain any substances classified as PBT or vPvB.

## 13: DISPOSAL CONSIDERATION

**Waste-disposal Procedures:** Recover and place material in a suitable container for intended use or disposal. 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. Do not re-use empty containers.

## 14: Transport INFORMATION

**UN no.** 1479

**Proper Shipping Name:** OXIDIZING SOLID, N.O.S. (Potassium nitrate)

**Land Transport (ADR/RID):** Class - 5.1, Packing group II, Environmentally hazardous substance - No

**Sea Transport (IMO/IMDG):** Class - 5.1, Packing group II, Marine pollutant -No

**Air Transport (IATA/ICAO):** Class - 5.1, Packing group II, Environmentally hazardous substance - No

**Special precautions for user:**

**EmS:** F-A, S-Q

**ADR Transport:** Category 2

**Emergency Action Code:** 1Y

**Hazard Identification Number:** (ADR/RID) 50

**Tunnel restriction code:** (E)

## 15: REGULATORY INFORMATION

**Hazard Symbols:** GHS02

**Signal Word:** Danger

**H-Statement:** H272 May intensify fire; oxidiser

## 16: OTHER INFORMATION

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