



ULINK AGRITECH PRIVATE LIMITED
MATERIAL SAFETY DATA SHEET : NPK 0: 52: 34 (MKP)

1: IDENTIFICATION

Chemical Name	Mono Potassium Phosphate		
Synonyms	Mono Potassium Phosphate (MKP)		
Uses	Fertilizer		
Manufacturer/ Supplier	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		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Phosphoric Acid (P2O5) (from Monopotassium Phosphate)	7778-77-0	52.00%
Soluble Potash (K2O) (from Monopotassium Phosphate)	7778-77-0	34.00%
Fertilizer salts and inert ingredients	-	14.00%

3: HAZARD IDENTIFICATION

Human Health Hazard:

Inhalation: Respiratory irritation could be expected from the unprotected inhalation of fertilizer dusts.

Ingestion: Ingestion of large quantities may cause nausea and vomiting. The acute ingestive symptoms include diarrhea, nausea and chills. Seek medical attention for overdose.

Skin Contact: May cause mild skin irritation. Avoid contact with skin, open cuts, or sores.

Eye Contact: May cause mild eye irritation.

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: Water fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

Specific Hazard: None known

Hazardous Thermal (de)composition: Product may produce oxides of phosphorus and oxides of potassium.

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.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. 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: Use appropriate tools to pick up the material and place in a container for proper disposal in accordance with local, state and federal regulations.

7: HANDLING & STORAGE

Precautions: Hygroscopic if relative humidity is over 76%. Contamination with ammonium nitrate fertilizers increases hygroscopicity of urea.

Handling: If user operations generate dust, fumes or mists, use ventilation to keep exposure to airborne contaminants below the exposure limit. 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. 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.

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 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

Appearance: White Solid

Colour: White

pH: 4.5 (1% wt/wt)

Specific Gravity (Water = 1): 1.25 g/ml

Solubility in Water: Soluble

Odour: Slight odour

Physical State: Solid

Boiling Point [°C]: Not applicable; mixture

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Material to Avoid: None known

Hazardous Decom. Products: May release oxides of phosphorus and oxides of potassium in a high temperature or fire situation.

Conditions to Avoid: Product is hygroscopic and may cake on extended storage. Do not store in brass containers

Hazardous Reactions: Polymerization will not occur.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 4640

Rat inhalation LC50 [mg/l/4h] : Not established

Skin irritation (rabbit): Moderate Irritant

Dermal (rat) LD50 [mg/kg]: >7950

Skin Sensitization (Guinea Pig): Non-Sensitizer

Eye irritation (rabbit): Moderate Irritant

Carcinogenic Potential: Not listed by OSHA, NTP, IARC, and ACGIH as a known human carcinogen.

12: ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13: DISPOSAL CONSIDERATION

Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food, or feed by storage or disposal.

14: TRANSPORT INFORMATION

This product is not regulated for transport.

15: REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA: Health - 1 , Flammability - 0, Instability -0

HMIS: Health - 1 , Flammability - 0, Instability -0, PPE- B

16: OTHER INFORMATION

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