



ULINK AGRITECH PRIVATE LIMITED
MATERIAL SAFETY DATA SHEET : NPK 12:61:0 (MAP)

1: IDENTIFICATION

Chemical Name	Monoammonium Phosphate		
Synonyms	Ammonium Phosphate, MAP		
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)
Monoammonium Phosphate	7722-76-1	-
Inert Ingredients	-	-

3: HAZARD IDENTIFICATION**Human health hazard:**

Inhalation: No known significant effects or critical hazards

Ingestion: Practically non-toxic if swallowed. Overdose symptoms include gastrointestinal irritation, vomiting and diarrhea. Seek medical attention for overdose.

Skin Contact: Practically non-toxic in contact with skin. Irritating to skin

Eye Contact: Irritating to eyes

Other Consideration:

Carcinogenicity: This product is not listed as carcinogenic by ACGIH, EPA, IARC, OSHA, or NTP.

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. If not breathing, give artificial respiration. Immediately seek medical attention if symptoms are severe or persist.

Ingestion: Rinse mouth with water thoroughly and give water to drink. 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

Specific Hazard: Not combustible. Non-explosive under normal conditions.

Hazardous Thermal (de)composition: Thermal decomposition products are dependent on temperature conditions. These products are water, ammonia and oxides of phosphorus.

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: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for Cleaning-up: Use appropriate tools to place the spilled material into a suitable container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7: HANDLING & STORAGE

Handling: 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. 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 or equivalent.

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: Solid. (Crystals)

Physical State: Solid

pH: 4 to 5 (Conc. (% w/w): 1) [Acidic.]

Colour: White

Odour : Odorless. (Slight.)

Solubility in Water: Partially soluble

Vapor Pressure: <0.1 kPa (<1 mm Hg) (at 20°C)

Bulk Density: 0.9 to 1.1 g/cm3

Melting Point [°C]: 190

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Conditions to Avoid: high temperatures (above 170°C)

Hazardous Decomp. Products: Ammonia generation under alkaline conditions; water, ammonia, oxides of phosphorus under high temperature

Material to Avoid: Alkalies.

Hazardous Reactions: Polymerization will not occur.

11: TOXICOLOGICAL INFORMATION

Routes of Exposure: Ingestion, Inhalation

LD50 (Rat, oral): >2000 mg/kg

LD50 (Rabbit, dermal):

>5000 mg/kg

Acute Effects on Human: May cause eye and skin irritation

Chronic Effects on Human: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

12: ECOLOGICAL INFORMATION

Ecotoxicity: Substances, which contribute to eutrophication: Phosphates.

Persistence/ Degradability: Not Applicable, since inorganic substance.

Mobility: Soluble in water.

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: The generation of waste should be avoided or minimized wherever possible. 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.

14: TRANSPORT INFORMATION

DOT/ IMDG/ IATA: This product is not regulated for transport.

15: REGULATORY INFORMATION

HCS Classification: Irritating material

16: OTHER INFORMATION

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