

### 1: IDENTIFICATION

<b>Chemical Name</b>	ammonium-DL-homoalanine-4-yl(methyl)phosphinate	<b>Trade Name</b>	<b>GLYCLEAN 71</b>
<b>Synonyms</b>	Ammonium salt of Glyphosate 71% SG	<b>Molecular Formula</b>	C <sub>5</sub> H <sub>15</sub> N <sub>2</sub> O <sub>4</sub> P
<b>Uses</b>	Herbicides		
<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)
Ammonium salt of Glyphosate	77182-82-2	71.0%
Other Ingredients		29.0%

### 3: HAZARD IDENTIFICATION

<b>Physical/Chemical Hazard:</b>	Acute toxicity, Category 4	Reproductive toxicity, Category 1B
<b>Human Health Hazard:</b>	H302 Harmful if swallowed H360Df May damage the unborn child. Suspected of damaging fertility.	
<b>Environmental Hazard</b>	H412 Harmful to aquatic life with long lasting effects	

### 4: FIRST AID MEASURES

**General:** First aid personnel should pay attention to their own safety and use protective equipment if there is a potential for exposure to product. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move patients to fresh air. Keep the patients warm and at rest. Allow patients to rest. If breathing is irregular or stopped, administer artificial respiration. Immediately seek medical attention.

**Ingestion:** Do not induce vomiting. If swallowed, seek medical advice immediately

**Skin Contact:** In case of contact with product, immediately wash with plenty of water. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, seek medical attention.

**Eye Contact:** Rinse immediately with plenty of water for several minutes with eyes wide open. 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:** For small fire, use water spray, foam, dry powder, carbon dioxide. For large fires, use alcohol-resistant foam or water spray.

**Unsuitable Extinguishing Media:** Solid water stream, as it may scatter or spread fire.

**Specific Hazards:** There is no risk of an explosion from this product under normal circumstances if involved in a fire.

**Hazardous Thermal (de)composition:** As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

**Special Procedures:** Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. If possible remove containers from fire zone, cool them with water spray.

**Protection of Fire Fighters:** Do not breathe a fumes. Wear full protective clothing and self-contained breathing apparatus.

### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate spillage area. Avoid breathing fume. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

**Environmental Precaution:** Do not allow runoff to enter drains and public waters. Notify the authorities if product enters. Do not discharge into the subsoil/soil.

**Methods for Cleaning-up:** Reposition any leaking containers to minimise further leakage. Damp and absorb spill with an absorbent material (sand or soil). Shovel the absorbed spill into drums. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects with water and detergents and rinse with the smallest volume of water practicable. Wear suitable protective equipment.

### 7: HANDLING & STORAGE

**Handling:** Do not smoke, drink, or eat while handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Avoid contact with eyes and skin.

**Storage:** Store in cool, well-ventilated area, and away direct sunlight. Keep in original container and tightly closed when not in use. Keep product segregate from fertilizer, seeds, foods and animal feeds. Keep out of reach of children, unauthorised persons and animals.

## 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure area is well-ventilated. Keep containers closed when not in use. No special requirements when product is used outdoors. Handle in accordance with good industrial hygiene and safety practice.

**General Protection:** Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. 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 with a universal filter type including particle filter.

**Skin Protection:** Chemical resistant gloves, coveralls, socks, apron and chemical resistant foot covering should always be used while handling the product 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:** Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

## 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b> Granules	<b>Density[g/ml]:</b> 0.6 @ 20 °C	<b>Physical State:</b> Solid	<b>pH:</b> 3.0 – 5.0 (1% Solution)
<b>Colour:</b> Light Yellow	<b>Odour:</b> Odourless	<b>Solubility in Water:</b> Soluble	

## 10: STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances

**Conditions to Avoid:** Excessive temperatures.

**Hazardous Decomp. Products:** No data available      **Hazardous Reactions:** No hazardous reactions if stored and handled as prescribed

**Material to Avoid:** React with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Reacts with bases to liberate heat.

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: >3000	Rat inhalation LC50 [mg/l/4h]: >2	Skin irritation (rabbit): Non-Irritant
Dermal (rat) LD50 [mg/kg]: >4000	Skin Sensitization (Guinea Pig): No data available	Eye irritation (rabbit): Moderately Irritant

## 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Bees LD50: > 100 µg/bee	Japanese quail LC50 (8d): >5000 mg/kg
Rainbow trout LC50 (96 hrs) mg/L: 710	Bluegill sunfish EC50 (48 hrs) mg/L: >1000

## 13: DISPOSAL CONSIDERATION

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

**Contaminated Packaging:** Rinse containers before disposal. Add rinsing's to the spray tank. Do not dispose of undiluted chemicals on site. Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14: TRANSPORT INFORMATION

**UN No.** 3077      **Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S (Ammonium salt of Glyphosate)

**Land Transport (ADR/RID):** Class-9, Packing Group-III

**Sea Transport (IMO) (IMDG):** Class-9, Packing group-III, Marine Pollutant-Yes

**Air Transport (IATA / ICAO):** Class-9 Packing group-III, Environmental hazard mark-Yes

## 15: REGULATORY INFORMATION

**Hazard Symbol:** GHS09

**Risk Phrase:** R22, R38, R41, R43

**Safety Phrase:** S1/2, S26, S35

## 16: OTHER INFORMATION

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