

1: IDENTIFICATION

Technical Name	Potash from Rhodophytes	Trade Name	POTASH PRIME
Synonyms	Organic Fertilizer	Molecular Formula	-
Uses	Agricultural fertilizer supplying water-soluble potassium and sulphur to crops.		
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

Organic fertilizer containing water-soluble potassium compounds naturally derived/processed from Rhodophytes (red algae), together with naturally associated mineral and organic constituents.

FCO Specification

Parameter	Specification
Moisture	Maximum 5.0 % by weight
Water-soluble Potash	Minimum 20.0 % by weight
Total Sulphur as S	Minimum 1.5 % by weight

Heavy Metal Limits

Heavy Metal	Maximum Limit	Heavy Metal	Maximum Limit
Arsenic as As ₂ O ₃	10 mg/kg	Mercury as Hg	0.15 mg/kg
Cadmium as Cd	5 mg/kg	Nickel as Ni	50 mg/kg
Chromium as Cr	50 mg/kg	Lead as Pb	100 mg/kg
Copper as Cu	300 mg/kg	Zinc as Zn	1000 mg/kg

Actual batch values shall comply with the prevailing Fertilizer Control Order specifications.

3: HAZARD IDENTIFICATION

The product is an agricultural organic fertilizer derived from Rhodophytes and is not normally regarded as a highly hazardous material when handled according to recommended practices. Dust generated during handling may cause temporary irritation to the eyes, nose, throat or respiratory tract

Potential Health Effects

Route	Potential Effect
Eye Contact	Dust or concentrated product may cause temporary mechanical irritation, redness or watering.
Skin Contact	Prolonged or repeated contact may cause mild irritation in sensitive individuals.
Inhalation	Excessive dust may irritate the nose, throat and upper respiratory tract.
Ingestion	Not intended for ingestion. Large quantities may cause gastrointestinal discomfort, nausea or vomiting.

Environmental Hazards

Avoid uncontrolled discharge of concentrated quantities into surface water, drains or water bodies. Excess nutrient loading may adversely affect aquatic environments.

Signal Word: CAUTION

Precautionary Statements

Avoid contact with eyes.	Do not eat, drink or smoke while handling the product.	Wash hands thoroughly after handling
Avoid breathing dust.	Wear appropriate protective equipment during bulk handling.	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. If signs/symptoms continue, get medical attention.

Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth with water thoroughly and give water to drink. Do not induce vomiting unless advised by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately if symptoms occurs.

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 if irritation develops and persists.

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.

Most Important Symptoms: Eye irritation; Coughing; Throat irritation; Mild skin irritation; Gastrointestinal discomfort following ingestion

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water Spray, Foam, dry chemical powder or carbon dioxide

Flammable properties: The product is not normally considered flammable under ordinary storage and handling conditions.

Protection of Fire Fighters: Firefighters should use appropriate protective clothing and self-contained breathing apparatus where significant smoke or decomposition fumes are present.

Specific Hazards: During severe heating or fire, decomposition products may include sulphur-containing gases, carbon oxides and other decomposition fumes depending on the formulation

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid generating dust. Avoid inhalation of dust. Avoid contact with eyes. Wear gloves, safety glasses and dust protection where required. For personal protection see section 8.

Environmental Precaution: Prevent large quantities of concentrated material from entering drains, sewers, streams, lakes or groundwater.

Methods for Cleaning-up: Small Spill: Sweep or collect mechanically while minimizing dust generation. Place recovered material in a clean, dry and appropriately labeled container.

Large Spill: Isolate the area. Use appropriate PPE. Collect mechanically without generating excessive dust. Recover uncontaminated material for appropriate agricultural use where permissible. Dispose of contaminated material in accordance with applicable local regulations.

7: HANDLING & STORAGE

Handling: Handle in accordance with good industrial and agricultural hygiene practices. Avoid unnecessary dust generation and breathing dust. Avoid contact with eyes. Do not eat, drink or smoke during handling. Wash hands after use. Keep bags/packages closed when not in use.

Storage: Store in the original, properly labelled container. Store in a cool and dry place. Keep away from direct sunlight. Protect from rain and excessive moisture. Keep away from food, feed and drinking water. Keep away from incompatible materials. Keep out of reach of children and animals. Keep packaging tightly closed to prevent moisture absorption and caking. Normal ambient temperature is generally suitable. Avoid prolonged exposure to excessive heat or humidity.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Provide adequate general ventilation. Use local dust extraction during large-scale powder handling, blending, filling or packing where substantial airborne dust may occur.

General Protection: Handle in accordance with good industrial hygiene and safety practice

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection : Use a suitable particulate/dust mask during operations generating significant dust.

Skin Protection: No special technical protective measures are necessary. Wear normal protective work clothing.

Hand Protection: Use protective gloves for prolonged or frequent handling.

Eye Protection: Safety goggles or protective glasses are recommended during manufacturing, packing and bulk handling.

Others: Wash hands before eating or drinking; wash exposed skin after handling; do not store food or beverages in fertilizer handling areas.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Powder **Colour:** Characteristic brown/reddish/brownish-red to dark colour

Solubility: Readily soluble

Bulk Density (g/ml): Product/batch specific **pH:** Product/batch specific **Physical State:** Solid

Odour: Mild characteristic marine/organic odour

10: STABILITY & REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous Polymerisation: Not expected.

Conditions to Avoid: Excessive moisture, high humidity, excessive heat, prolonged direct sunlight, and contamination with incompatible materials.

Hazardous Decomp. Products: Under severe heating or fire conditions: carbon oxides, sulphur-containing gases, smoke and other decomposition products.

Incompatible Materials: Avoid uncontrolled mixing with strong acids, strong oxidising agents or incompatible industrial chemicals unless compatibility has been established.

11: TOXICOLOGICAL INFORMATION

General: Agricultural product; handle according to recommended fertilizer handling practices.

Acute Toxicity: Specific product acute toxicity values have not been established unless supported by product-specific studies. Normal occupational handling is not expected to result in significant systemic toxicity.

Skin Irritation: May cause mild temporary irritation after prolonged or repeated exposure.

Eye Irritation: Dust may produce temporary mechanical irritation.

Respiratory Effects: High airborne dust levels may cause irritation of the respiratory tract.

Sensitisation: No sensitising effect is expected from normal occupational exposure unless demonstrated otherwise by formulation-specific studies.

Chronic Effects: No adverse chronic health effects are expected when the product is used in accordance with recommended agricultural practices.

12: ECOLOGICAL INFORMATION

Eco toxicity: No significant ecological hazard is expected when used at recommended agricultural doses.

Nutrient Enrichment: Large or uncontrolled release into water bodies should be avoided because concentrated plant nutrients may contribute to nutrient enrichment/eutrophication.

Persistence and Degradability: Organic components derived from Rhodophytes are expected to undergo natural biological degradation. Mineral potassium and sulphur components participate in normal environmental and soil nutrient cycles.

Bioaccumulation: Significant bioaccumulation of the product as a whole is not expected under normal agricultural use.

Soil Mobility: Potassium and sulphur-containing constituents may move through soil depending on soil type, rainfall, irrigation, cation exchange capacity and crop uptake.

13: DISPOSAL CONSIDERATION

Disposal of Wastes: Whenever possible, uncontaminated product should be used for its intended agricultural purpose according to approved recommendations. Do not dispose of large quantities into drains, rivers or water bodies. Contaminated or unusable product should be disposed of in accordance with applicable local environmental regulations

Contaminated Packaging: Completely empty packages. Keep empty packages away from food, feed and drinking water. Dispose of/recycle according to applicable local regulations. Do not reuse empty fertilizer bags or containers for storage of food, feed or drinking water.

14: TRANSPORT INFORMATION

Transport Regulations: Not expected to be classified as dangerous goods for normal road transport, subject to the actual final formulation and applicable transport legislation.

UN Number: Not Applicable

Proper Shipping Name: Not Applicable

Transport Hazard Class(Es): Not normally regulated as dangerous goods.

Packing Group: Not Applicable

Marine Pollutant: Not expected to be classified as a marine pollutant under normal product conditions.

15: REGULATORY INFORMATION

The product shall conform to the applicable provisions of the Fertilizer (Inorganic, Organic or Mixed) (Control) Order, 1985, as amended from time to time.

FCO Classification: Schedule IV – Organic Fertilizers. Product: NutriRed.

16: OTHER INFORMATION

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