

**BiranoFertilizer™**  
**10 -10 -10 -X3**



**Product Feature**

Improves crop growth and development by increasing PAR absorption

Produce nutritious plant product, not just biomass or yield.

Control release thus enhances nutrient use efficiency.

Reduce environmental pollution.

Maintain soil biological health.

It can be used as a root drench or foliar spray.

**Product Characteristic**

Product Code: BA151804-500G

Physical State: Solid Powder

Product Type: Nutrient Fertilizer for plants

Net Weight: 1 lb.

**Chemical Constitutes**

Nitrogen (N) ..... 10%

Phosphate (P<sub>2</sub>O<sub>5</sub>)..... 10%

Potassium (K<sub>2</sub>O)..... 10%

BiranoX3 ..... <5%

*(Chemical composition and structural formula is confidential know how)*

Chromatint.....<0.001%

**Direction for Use**

1. Disperse and dissolve 1 lb. Birano Fertilizer in 50-Gallon water.
2. Foliar spray -1<sup>st</sup>: 22 - 26 days old plants.
3. Foliar spray -2<sup>nd</sup>: 44 - 46 days old plants.

**NOTE:**

- a) 25 Gallon can cover approximately 0.25 acre.
- b) Apply twice in a season.

**Storage and Use** • Store in a dry place. • Do not leave unused product in sprayers. •Do not mix unused product in any drinking water stream.

**Precautions** • KEEP OUT OF REACH OF CHILDREN. Do not inhale. Fertilizer may cause irritation of eyes, nose, throat and skin. In case of contact with eyes, flush with plenty of water, get medical attention.

**Notice to Buyer** • CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY: Buyer assumes all responsibility for safety and use not in accordance with directions. It is impossible to eliminate all risks inherently associated with the use of the product. Plant injury, infectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond seller's control. In no case shall the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

**Manufactured By:**

BIRANO

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**MATERIAL SAFETY DATA SHEET**

**BIRANO**

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**Product name:** Birano Fertilizer 10 -10 -10 -X3  
**Product Code:** BA151804-500G  
**Physical State:** Solid Powder, 99% water-soluble  
**Product Type:** Nutrient Fertilizer for plants

**Major Chemical Constitutes**

Nitrogen (N) ..... 10%  
Phosphate (P<sub>2</sub>O<sub>5</sub>)..... 10%  
Potassium (K<sub>2</sub>O)..... 10%  
BiranoX3 is a mixture of microelements and organic substances, which is less than 5%. Less than 0.001 chromatint was used of blue color.

**Storage and Use** • Store in a dry place. • Do not leave unused product in sprayers. •Do not mix unused product in any drinking water stream.

**Precautions** • KEEP OUT OF REACH OF CHILDREN. Do not inhale. Fertilizer may cause irritation of eyes, nose, throat and skin. In case of contact with eyes, flush with plenty of water, get medical attention.

Wear gloves, mask and safety glasses while handing the product.

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts, mists, and fumes to reduce exposures to acceptable levels.

Running water or eyewash station should be available in case material gets in eyes.

**Hazard Identification**

MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE SKIN AND EYE IRRITATION. It is

strongly advised to avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing dust. Do not swallow.

**POTENTIAL HEALTH EFFECTS**

**EYES:** May cause eye irritation. **SKIN:** May cause skin irritation. **INGESTION:** Possible nausea, vomiting, diarrhea. **INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation. **MEDICAL CONDITIONS AGGRAVATED** Skin abrasions, sores, or other pre-existing skin conditions. Inhalation of dust may aggravate asthma.

**ROUTES OF ENTRY:** skin, eye, ingestion, inhalation

**First Aid Measures**

**SKIN:** Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Seek medical attention if irritation develops or persists. **EYES:** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice. **INGESTION:** If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment.

**Fire-Fighting Measures**

**EXTINGUISHING MEDIA:** Water **HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition may produce ammonia as well as toxic oxides of carbon, nitrogen, phosphate,

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potassium and other metal oxides. EXPLOSION HAZARDS: High airborne dust concentrations have the potential for explosions. FIRE FIGHTING PROCEDURES: Evacuate area. Flood with water to cool containers. Apply water from a safe distance to avoid splattering of molten material. Wear self-contained breathing apparatus to fight large fires. FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus to fight large fires. FLASHPOINT: Decomposes on heating.

**OTHERS:**

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Liquid fuels

TOXICOLOGICAL INFORMATION: Little toxicology information is available for this product. Nitrate-containing substances are potential allergens. Prolonged or repeated contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia and kidney injury. Ingestion of nitrates can cause gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Eye contact with urea powder may cause reversible corneal opacity along with irritation, tearing, and blinking as a foreign body in the eye. Skin contact with powdered urea may cause only mild irritation while ingestion may cause nausea, vomiting, and possible excitement and convulsions.

ECOTOXICOLOGICAL INFORMATION: Keep out of lakes, water streams, ponds.

DISPOSAL METHOD: Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

NFPA CODES HEALTH: 1 FIRE: 0 REACTIVITY: 0  
NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe

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