

## PRODUCT NAME

NPK NutriStar 10-4-12 Hibiscus Food

## MANUFACTURER

Nelson Plant Food Corp., 224 Hwy 36 S., Bellville, Texas 77418  
Emergency Phone: NPF 979/865/8596 Chemtree 800-424-9300

## PRODUCT IDENTIFICATION

Trade Name – NPK NutriStar 10-4-12 Hibiscus Food  
Chemical Family – All Chemical

Total Nitrogen (N) .....	10.00%
Available Phosphate (P2O5) .....	4.00%
Soluble Potash (K2O) .....	12.00%
Magnesium (Mg) .....	3.10%
Sulfur (S) .....	3.80%
Copper (Cu) .....	0.05%
Iron (Fe) .....	4.30%
Manganese (Mn) .....	0.13%
Zinc (Zn) .....	0.13%

## PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NA Specific Gravity (water=1) 1.5

Melting Point: 130 F. Bulk Density: (lbs/cu. Ft) 65

Vapor Pressure: Negligible Evaporation Rate: Negligible

Vapor Density: Negligible Percent Volatile: NA

Solubility in Water: 60 Appearance: Small Granules Various Colors

## FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA (Non-Flammable)

Lower Explosion limit: NA

Extinguishing Media: Foam, Water Spray, Steam, Sand, Dry Chemical, Carbon Dioxide. Special Fire Fighting Procedure: wear NOISH approved self-contained breathing apparatus and impervious clothing. Use agents appropriate to surrounding material to extinguish fire. Evaluate downwind area if large quantities are involved in fire. Urea may decompose to Cyan uric acid, ammonia, HCN and nitrogen oxides. Sulfur can produce oxides. Hydrogen sulfide is a reaction produce and is toxic and explosive.

## HEALTH HAZARDS

OSHA/PEL or ACGIH/TLV limits: ND Suggest OSHA nuisance dust 15 mg/m or ACGIH/TLV 10 mg/m

Primary Routes of Entry: Eye, skin, inhalation of dust

Signs & Symptoms of Exposure:

- Acute: Eye irritation from urea, sulfur, and conditioner. Irritation, rash or chafing of skin also from these ingredients.
- Chronic: Prolonged inhalation can cause mucous membrane irritation, or lung disorders.

Emergency First Aid Procedures:

- Eyes: Flush with lukewarm water holding eyelids open for 20 minutes. Get medical attention if irritation persists.
- Skin: Wash thoroughly with soap and water. Obtain medical attention if irritation persists.
- Inhalation: Move subject to fresh air and give artificial respiration if necessary.
- Ingestion: Unless unconscious or convulsing, give subject 2-3 glasses of water and induce vomiting. Call physician or Poison Control Center.

Positive Animal Carcinogen (NPT): No

Potential Carcinogen (IARC or OSHA): No

## TOXICITY INFORMATION

Oral LD50: ND (Essentially non-toxic)

Medical Conditions Aggravated by Exposure: None known

## REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid heating above 95 degrees Celsius. Crystallization changes can destroy product's physical properties.

Incompatibility: Separate from acids, hypochlorites, alkalies, chlorates, nitrate, and other oxidizers.

Hazardous Decomposition Products: Biuret, ammonia, cyanuric acid, carbon monoxide, HS, and NO.

Hazardous Polymerization will not occur.

Conditions to Avoid: None Known.

## SPILL, LEAK, AND DISPOSAL PROCEDURES

If material is spilled, sweep, vacuum, or shovel material into a container for reuse or disposal. Do not allow product to contaminate drains, sewers, streams, or bodies of water. may cause fish kills. Prevent large quantities from contacting vegetaion. Keep animals away from large spills. May cause illness.

Waste Disposal method: Dispose according to federal EPA procedures as outlined in the Resource Conservation Recovery Act and follow state and local guidelines.

## SPECIAL PROTECTION INFORMATION

Protective Equipment Suggested for Outdoor Application: None

Protective Equipment Suggested for Confined Areas: Sufficient ventilation, eyewash station, emergency shower, dust mask, splash goggles.

## STORAGE AND HANDLING

Precautions: Store in a cool, dry place if possible. Seperate from pesticides, seed, feed, foodstuffs, drains, sewers, and water sources.

Other Precautions: Maximum storage temperatures of 54 degrees Celsius to prevent production degradation and 118 degrees Celsius to prevent safety problems. Wet area can cause slippery conditions. Avoid contact with skin, eyes, and clothing. Keep out of reach of children.

Do not store in unmarked containers and keep away from incompatible products.

NA = Not applicable

ND = Not determined

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For further information, contact Nelson Plant Food Corp., P.O. Box 638, Bellville, Texas 77418, or 979/865-8596.