

MATERIAL SAFETY DATA SHEET

Production Name: **COLORSTAR 19-13-6**

Item Number: All Chemical

I. MANUFACTURER

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

II. PRODUCT IDENTIFICATION

Trade Name: NPK **COLORSTAR 19-13-6**
Chemical Family: All Chemical

III. HAZARDOUS INFORMATION: INGREDIENTS

Chemical Name	% by weight
Total Nitrogen (N)	19.00%
Available Phosphate (P2O5)	13.00%
Soluble Potash (K2O)	6.00%
Magnesium (Mg)	0.50%
Sulfur (S)	1.50%
Copper (Cu)	0.05%
Iron (Fe)	0.50%
Manganese (Mn)	0.14%
Zinc (Zn)	0.50%

IV. 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

V. FIVE 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 Procedures: Wear NIOSH approved self-contained breathing apparatus and impervious clothing.
Use agents appropriate to surrounding materials 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 product and is toxic and explosive.

VI. HEALTH HAZARDS

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

VII. TOXICITY INFORMATION

Oral LD50: ND (Essentially non-toxic)

Medical Conditions Aggravated by Exposure: None known

VIII. 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.

IX. 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 vegetation. 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.

X. 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.

XI. STORAGE AND HANDLING

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

Other Precautions: Maximum storage temperatures of 54 degrees Celsius to prevent product 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.

XII. 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.