

1. IDENTIFICATION

Product Name: Nu-Arbor 20-0-6

Identified Uses: Intended for agriculture. Not for human consumption.

Supplier: Grand Arbor Group, Inc. dba
Nu-Arbor Tree and Shrub Care
1730 Olson NE Ste A
P.O. Box 151455
Grand Rapids, MI 49515

Telephone: (888) 773-8777 / (616) 456-8626

FAX: (616) 456-7780

CHEMTREC

Emergency Telephone: (800) 424-9300

2. HAZARDS IDENTIFICATION

Signal Word: Warning

Skin Irritation: Prolonged or repeated contact may irritate slightly

Eye Irritation: Contact with liquid may irritate slightly.

Acute Toxicity Oral: LD50 (rat) > 2,600 mg/kg (potassium chloride)

Acute Toxicity Dermal: No data available

Hazard Categories: Oral/Dermal/Inhalation Toxicity – 5/5/5; Eye Irritation – 2B; Skin Irritation – 3

Hazard Statements: May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes mild skin irritation
May be harmful if inhaled



3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Blend of plant nutrients derived from Urea Triazone, Urea, Potassium Carbonate, Potassium Thiosulfate, Copper EDTA, Iron EDTA, Manganese EDTA, Zinc EDTA

GUARANTEED ANALYSIS:

Total Nitrogen (N)	20.0%
	10% Slowly Available Water Soluble Nitrogen
	10% Urea Nitrogen
Water soluble Potash (K ₂ O)	6.0%
Copper (Cu)	0.03%
Iron (Fe)	0.06%
Manganese (Mn)	0.03%
Zinc (Zn)	0.03%

4. FIRST AID MEASURES

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation continues.

Inhalation: Move to fresh air. Obtain medical attention if irritation develops.

Ingestion: Drink large volumes of water. Call a physician or poison control center.

Indication of Immediate Medical Attention and Special Treatment Needed:

In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Non-combustible product. Use extinguishing media for underlying cause of fire.

Specific Hazards Arising from the Chemical: Product may release ammonia and carbon dioxide under fire conditions.

Special Fire Fight Procedure: Wear positive-pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal Procedures: Avoid contact with skin and eyes. Keep unnecessary personnel out of area.

Protective Equipment: NIOSH-approved respirator for ammonia gas if mist or spray is present, impervious gloves, splash-proof goggles, impervious apron, and footwear. Safety shower and eyewash should be available.

Emergency Procedures: Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.

Methods and Materials for Containment and Cleanup: Contain spill. If uncontaminated, collect and reuse product. If contaminated, absorb on sand or clay and place in a recovery drum for proper disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash water or spray waste. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metals.

Conditions for Safe Storage: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Use within 6 months of purchase date. Store unblended in original containers.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

TLV/PEL: Not established

Appropriate Engineering Controls: Local exhaust should be sufficient.

Personal Protective Equipment: NIOSH-approved respirator for ammonia gas if mist or spray is present, impervious gloves, splash-proof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor/Appearance: Clear green liquid with slight ammonia odor.

Flash Point, °F: Not flammable

Boiling Point, °F: 102 Degrees C.

Melting Point (Freezing point), °C: 35 Degrees F

Vapor Pressure, mm Hg @ 20°C: 50 mm/Hg @ 21 Deg. C.

Vapor Density: No applicable.

Solubility in Water: Soluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25°C: 1.180- 1.200

Evaporation Rate (Butyl Acetate = 1): 0.03

Octanol/Water Partition Coefficient: No information found

pH: 8.6-9.8

Flammable Limits (Approximate volume % in air): Not applicable

Auto-ignition Temperature: Not applicable

Decomposition Temperature: No Information found

10. STABILITY AND REACTIVITY

Reactivity: No information found

Chemical stability: Stable

Hazardous Decomposition Products: Product may release ammonia and carbon dioxide under fire conditions

Hazardous polymerization: Will not occur.

Conditions to Avoid: Avoid high temperatures above 105 Degrees F., or greater acid contamination.

Incompatible Materials: Avoid mixing or intimate contact with strongly acidic materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral LD50): 2,600 mg/kg (rat) (potassium chloride)

Acute Toxicity (Dermal LD50): No information found

Acute Toxicity Inhalation LC50: No information found

Likely Routes of Exposure: Skin, eyes, inhalation

Skin Irritation: Prolonged or repeated contact may irritate slightly.

Eye Irritation: Liquid contact may irritate slightly. If mist is formed, it may also irritate slightly.

Skin Sensitization: No information found

Carcinogenic: Not listed by IARC, NTP or OSHA.

Chronic Effects: None currently known.

Other Hazards: None currently known.

12. ECOLOGICAL INFORMATION

Eco-toxicity: No information found
Persistence and Degradability: Not information found
Bio-accumulative Potential: No information found
Mobility in Soil: No information found
Other Adverse Effects: May promote eutrophication in waterways if large spills occur.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: This material must be disposed of according to federal, state, or local procedures under the Resource Conservation and Recovery Act.

14. TRANSPORT INFORMATION

UN Proper Shipping Name: Not regulated by DOT, IATA, OR IMDG
Transport Hazard Class: None
UN Identification Number: None
Packaging Group: None
Environmental Hazards: No information found
Transport in Bulk: No information found
Special Precautions for Transportation: No information found
Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. REGULATORY INFORMATION

National Fire Protection Association Rating:

Health: 1 Fire: 0 Reactivity: 0
 Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)



S.A.R.A Title III Hazard Classification (Yes/No): N

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of Pressure: N

Fire: N

Reactive: N

16. OTHER INFORMATION

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