

# Technical Bulletin M2125

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## Arbor Care 15-8-4 Product Specifications & MSDS

No. 92909

Arbor Care 15-8-4, 2-1/2 Gallon



### Arbor Care 15-8-4

Ideal for soil injection for both deciduous and evergreen trees.

To assure a safe, reliable and efficient product, Arbor Care 15-8-4 provides a continuous steady source of slow release nitrogen from methylene diurea (MDU) along with soluble, non-chloride potassium.

#### Guaranteed Analysis:

Total Nitrogen (N)	15%
	8.0% Urea Nitrogen
	1.0% Ammoniacal Nitrogen
Available Phosphate (P2O5)	6.0% Slowly Available Water Soluble Nitrogen*
	8%
Soluble Potash (K2O)	4%
Copper (Cu)	0.05%
	0.05% Chelated Copper (Cu)
Iron (Fe)	0.1%
	0.1% Chelated Iron (Fe)
Manganese (Mn)	0.05%
	0.05% Chelated Manganese (Mn)
Zinc (Zn)	0.05%
	0.05% Chelated Zinc (Zn)

#### Derived From:

Urea, Methylene Urea, Potassium Carbonate, Monoammonium Phosphate, Copper EDTA, Iron EDTA, Manganese EDTA, Zinc EDTA. Chelating Agent: EDTA

\*40% slowly available Nitrogen from Methylene Urea

Weight per gallon: 10.67 lbs. Each gallon contains 1.6 lbs. Nitrogen; .64 lbs. is slow release Nitrogen

#### Product Description:

Arbor Care 15-8-4 with micros is made from only the highest quality N-P-K sources and micros. Arbor Care provides a continuous steady source of slow release nitrogen from methylene diurea (MDU) along with soluble, nonchloride potassium. The N release period, when used for deep root injection, extends 3 to 6 months depending on the soil and climate conditions. There is no danger of phytotoxicity. Arbor Care is a true solution, ideal for foliar spray application and soil injection for trees and ornamentals. No special agitation is needed. Arbor Care is compatible with fungicides, herbicides and insecticides and can be mixed and sprayed in one application. Arbor Care has an extremely low salt index.

#### Application Recommendations:

**Tree & Ornamentals:** Arbor Care is ideal for soil injection with both deciduous and evergreen trees.

#### Root Injection Rates:

Arbor Care should be injected into the top 4" to 8" inches of soil where feeder roots extend. Start application of fertilizer approximately 2 to 3 feet from tree trunk and extend the same distance beyond the drip line. A grid pattern should be laid out, and spacing should be every 2-1/2 ft. to a depth of 4" to 8" inches. A minimum of 5 gal. of tank mix should be applied per inch of tree diameter. Inject approximately 1/2 gal. of fertilizer solution at each point.

**Foliar Rates:** Mix 1 oz. of Arbor Care in 1 gallon of water and spray until runoff.

#### Application Rate At 75 Gallons Per 1,000 Square Feet

Tank Size	1 lb. N	2 lbs. N
75 gal.	80 oz.	1.25 gal.
150 gal.	1.25 gal.	2.50 gal.
300 gal.	2.5 gal.	5.00 gal.
600 gal.	5 gal.	10.00 gal.
1,000 gal.	8.25 gal.	16.50 gal.

The following chart is based on 1,000 sq. ft. of drip area at a 1/2 to 2 lb. rate of nitrogen.

#### Tech Support 800-430-5566

If you need more information or would like advice from an experienced professional, call our Technical Support team.

#### Sales 800-647-5368

Our sales department will gladly fax you an order form, update you on pricing, or take your order over the phone.

#### Online www.forestry-suppliers.com

For credit card and open account orders, visit our web site to place your order.



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DBH Method	
lbs. N Per Inch DBH	Quantity of 15-8-4 Per 100 Gallons of Water
1/18	89 oz.
1/12	1 gal. 5 oz.
1/6	2 gal. 11 oz.

Apply 5 gallons of tank mix per inch diameter. Always measure tree diameter at 4 -1/2 feet above ground.

**Mixing:** Arbor Care must first be diluted with water prior to mixing with other nutrients or pesticides. High quality buffers

allow Arbor Care to be blended with acidic or alkaline materials without detrimental effects. The following mixing procedures should be used after Arbor Care has been diluted with water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition. Be sure each product is mixed well before adding next product.

## MSDS ArborCare 15-8-4

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GROWTH PRODUCTS, LTD. 914-428-1316  
P.O. BOX 1252  
WHITE PLAINS, NY 10602

### MATERIAL SAFETY DATA SHEET

#### SECTION ONE - PRODUCT DESCRIPTION

TRADE NAME: GROWTH PRODUCTS ARBOR CARE 15-8-4  
NAME: 40% SLOW RELEASE NITROGEN WITH MICRONUTRIENTS LIQUID FERTILIZER SOLUTION  
TYPE: PROPRIETARY PRODUCT  
APPLICATION: GROWTH PRODUCTS INC.

#### SECTION TWO - HAZARDOUS INGREDIENTS

THIS MATERIAL IS NOT A 'HEALTH HAZARD' OR A 'PHYSICAL HAZARD' AS DETERMINED WHEN REVIEWED ACCORDING TO THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S 29 CFR 1910.1200 'HAZARD COMMUNICATIONS' STANDARD.  
CHEMICAL HAZARD RATING  
HEALTH = 1 (SLIGHT)  
FIRE = 0 (LEAST)  
REACTIVITY = 0 (LEAST)

#### SECTION THREE - PHYSICAL DATA

APPEARANCE CLEAR/HAZY LIQUID  
COLOR AMBER  
ODOR SLIGHTLY MUSTY ODOR  
WEIGHT PER GALLON 10.67# @ 21 DEG. C  
STORAGE LIFE AT 70F 2 YEARS  
PH-21 DEG. C 8.00 - 8.5  
WATER SOLUBILITY COMPLETELY MISCIBLE  
EVAPORATION RATE SAME AS WATER  
BOILING POINT ABOUT 210 DEG. F  
FREEZING POINT 32 DEG. F  
VISCOSITY 1-10 cps @ 21 DEG. C

#### SECTION FOUR - FIRE FIGHTING DATA

FLASH POINT (METHOD USED) CLOSED CUP  
FLAMMABLE LIMIT NONCOMBUSTIBLE  
EXTINGUISHING MEDIA LEL: N.A. UEL: N.A.  
SPECIAL FIRE FIGHTING PROCEDURES DOES NOT BURN  
UNUSUAL FIRE & EXPLOSION PROCEDURES NONE

#### SECTION FIVE - HEALTH & FIRST AID DATA

THRESHOLD LIMIT VALUE: NONE ESTABLISHED  
EFFECTS OF OVER EXPOSURE: LIQUID CONTACT MAY CAUSE SLIGHT EYE IRRITATION AND REPEATED SKIN EXPOSURE MAY CAUSE SOME SKIN IRRITATION. INGESTION: CALL A PHYSICIAN IMMEDIATELY IF

SIGNIFICANT AMOUNTS HAVE BEEN SWALLOWED. GIVE THE EMPLOYEE LARGE AMOUNTS OF WATER OR MILK TO DRINK FOR DILUTION EFFECT. DO NOT INDUCE VOMITING.  
INHALATION: NOT EXPECTED TO BE HARMFUL UNDER NORMAL CONDITIONS OF USE, HOWEVER, IF ALLOWED TO BECOME AIRBORNE, MAY CAUSE IRRITATION OF NOSE, THROAT AND LUNGS.  
SKIN: MAY CAUSE IRRITATION ON PROLONGED OR REPEATED CONTACT.  
EYES: MAY CAUSE IRRITATION ON PROLONGED OR REPEATED CONTACT.

#### SECTION SIX - REACTIVITY DATA

STABILITY STABLE  
CONDITIONS TO AVOID IF UNSTABLE NOT APPLICABLE  
INCOMPATIBILITY WITH OTHER MATERIALS NOT APPLICABLE  
HAZARDOUS DECOMPOSITION PRODUCTS OF DRY MATERIAL CO, CO2, NH3, ALDEHYDES (INCLUDING FORMALDEHYDE), PARTICULATE MATTER AND OTHER ORGANIC COMPOUNDS. WILL NOT OCCUR  
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID UNCONTROLLED POLYMERIZATION NOT APPLICABLE.

#### SECTION SEVEN - SPILL & DISPOSAL PROCEDURES

STEPS TO BE TAKEN TO HANDLE SPILLS OR RELEASES: PREVENT PRODUCT FROM ENTERING DRINKING WATER SUPPLIES. COLLECT LIQUID OR SOLIDIFY WITH ABSORBANT MATERIAL AND PACKAGE FOR DISPOSAL ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS. WASTES DISPOSAL PROCEDURES: THIS PRODUCT IS LIKELY TO HAVE A PH LESS THAN 8.5 AND WOULD NOT BE CONSIDERED A FEDERAL HAZARDOUS WASTE ACCORDING TO EPA REGULATION 40CFR 261. DISPOSE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

#### PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NOT NORMALLY NEEDED VENTILATION: WHERE AIR CONTAMINANTS CAN EXCEED ACCEPTABLE CRITERIA, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANTS IN AIR IN ACCORDANCE WITH OSHA 29 CFR 1910.134 OR OTHER APPLICABLE STANDARDS OR GUIDELINES. USE GOGGLES IF CONTACT IS LIKELY. WEAR IMPERVIOUS GLOVES AS REQUIRED TO PREVENT SKIN CONTACT.

#### SECTION EIGHT - SPECIAL PRECAUTIONS

NOT HARMED BY FREEZING, BUT THAW FROZEN FERTILIZER SLOWLY AND STIR BEFORE USING. STORE IN A COOL PLACE. ROTATE STOCK IN STORAGE TO USE OLDEST FIRST. REFER TO PRODUCT SPECIFICATIONS.

5 - APRIL - 2000  
(LF 15-8-4)