

Technical Bulletin M2126

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Autumn Care 6-12-12 Product Specifications & MSDS

No. 92910

Autumn Care 6-12-12, 2-1/2 Gallon



Autumn Care 6-12-12

For fall fertilization of trees, ornamentals & vines.

Guaranteed Analysis:

Total Nitrogen (N)	6%
	2.6% Urea Nitrogen
	1.0% Ammoniacal Nitrogen
	2.4% Slowly Available Water Soluble Nitrogen*
Available Phosphate (P2O5)	12%
Soluble Potash (K2O)	12%

Derived From:

Urea, Methylene Urea, Potassium Carbonate, Ammonium Polyphosphate.

*40% slowly available Nitrogen from Methylene Urea

Weight per gallon: 10.48 lbs. Potential acidity equivalent to 357 lbs. Calcium Carbonate per ton.

Product Description:

Autumn Care 6-12-12 provides a higher ratio of phosphorus and potassium in solution for fall fertilization of trees, ornamentals and vines. Autumn Care contains 40% slow release nitrogen (MDU - methylene diurea) from Growth Products exclusive source, Nitro-30 SRN, which has an extremely low salt index. This slow release nitrogen provides excellent residual release, does not leach and will remain in the soil for spring uptake. Our potassium is a soluble, non-chloride source. Since all Growth Products fertilizers are TRUE SOLUTIONS they are ideal for spray applications for turf, foliar feeding and root injection of trees and ornamentals. Autumn Care will not settle out of solution and needs no special agitation. It is non-clogging and non-abrasive to equipment with a near neutral pH. Autumn Care is ideal for IPM units since it is compatible with fungicides, herbicides and insecticides and can be mixed and sprayed in one application.

Application Rate At 75 Gallons Per 1,000 Square Feet

Tank Size	1/2 lb. N	1 lb. N	2 lbs. N
75 gal.	100 oz.	1.5 gal.	3 gal.
150 gal.	1.5 gal.	3 gal.	6 gal.
300 gal.	3 gal.	6 gal.	12 gal.
450 gal.	4.5 gal.	9 gal.	18 gal.
600 gal.	6.0 gal.	12 gal.	24 gal.
1,000 gal.	10 gal.	20 gal.	40 gal.

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

Application Recommendations:

Trees & Ornamentals: Apply from fall through early winter to all trees, ornamentals and vines. Autumn Care is a true solution and is ideal for root injection. It provides 40% slow release nitrogen from Nitro-30 that will not leach below feeder roots. No special agitation is required. Autumn Care is not abrasive. Inject no lower than 8" with correctly calibrated fertilizer injector equipment. Each gallon of Autumn Care contains .69 lbs. of nitrogen. Apply 5 gallons of tank mix per inch of trunk diameter.

DBH Method

lbs. N Per Inch DBH	Quantity of 18-3-6 Per 100 Gallons of Water
1/18	73 oz.
1/12	110 oz.
1/6	1.75 gal.

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

Storage & Handling:

Storage: Autumn Care can be stored in normal warehouse areas and is not affected by freezing temperatures. Autumn Care has a neutral pH and is not corrosive.

Dilution: Autumn Care can be diluted by either adding the concentrate to water or the water to concentrate. Water should be added prior to adding pesticides, fungicides and herbicides.

Mixing: High quality buffers allow Autumn Care to be blended with acidic or alkaline materials without detrimental effects. The

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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following mixing procedures should be used after Autumn 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. It is recommended to apply all of mixture in one day.

MSDS Autumn Care 6-12-12

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GROWTH PRODUCTS, LTD. 914-428-1316
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MATERIAL SAFETY DATA SHEET

SECTION ONE - PRODUCT DESCRIPTION

TRADE NAME: GROWTH PRODUCTS
NAME: AUTUMN CARE 6-12-12 WITH 40% SLOW RELEASE NITROGEN LIQUID FERTILIZER SOLUTION
TYPE: ROPRIETARY 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
COLOR: BLUE-GREEN
ODOR: MUSTY ODOR
WEIGHT PER GALLON: 10.48# @ 21 DEG. C
STORAGE LIFE AT 70F: 2 YEARS
PH-21 DEG. C: 7.5 - 8.3
WATER SOLUBILITY: COMPLETELY MISCIBLE
EVAPORATION RATE: SAME AS WATER
BOILING POINT: ABOUT 210 DEG. F
FREEZING POINT: 0 DEG. F
VISCOCITY: 5-20 cps @ 21 DEG. C

SECTION FOUR - FIRE FIGHTING DATA

FLASH POINT (METHOD USED CLOSED CUP) NONCOMBUSTIBLE
FLAMMABLE LIMIT LEL: N.A. UEL: N.A.
EXTINGUISHING MEDIA DOES NOT BURN
SPECIAL FIRE FIGHTING PROCEDURES NONE
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.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
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 6-12-12)