

**NEW &
IMPROVED**



**Double the
Strength
2X**

COMPOST DE-THATCHER

15-0-0 PLUS MICROBES & ENZYMES With 10% SLOW RELEASE NITROGEN

- **THREE NATURAL DIGESTING BACILLUS STRAINS**
- **STRONG ENZYME-PRODUCING MICROBES**
- **CORRECT N RATIO WITH SLOW RELEASE NITROGEN**

GUARANTEED ANALYSIS

F106

Total Nitrogen (N)15%
 5% Urea Nitrogen
 10% Slowly Available Water Soluble Nitrogen*

Derived From: Methylene Urea

10% slowly available nitrogen from Methylene urea

CONTAINS BENEFICIAL BACTERIA

Bacillus subtilis1.5 x10⁹ CFU** per ml
 Bacillus megaterium.....1.5 x10⁹ CFU per ml
 Bacillus licheniformis.....1.5 x10⁹ CFU per ml

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Protease0.02 CSU*** / gal.
 Cellulase.....0.02 FPU****/ gal.
 Amylase.....0.02 SLU****/gal.

Colony Forming Units, *Casein Solubilization Units,
 ****Filter Paper Units, *****Starch Liquefying Units.

Kelp Extract (Ascophyllum nodosum).....5%
 Natural Wetting Agent (Yucca schidigera).....1.5%
 Monosaccharides (Maltodextrin)3%

- 0.44% Glycine
- 1.8% L-Glutamic Acid
- 0.56% L-Aspartic Acid
- 0.90% L-Alanine
- 0.88% L-Proline
- 0.96% L-Leucine
- 0.36% L-Lysine
- 0.44% L-Serine
- 0.40% L-Arginine
- 0.65 L-Threonine
- 0.46% L-Valine
- 0.40% L-Phenylalanine
- 0.32% L-Isoleucine
- 0.30% L-Histidine
- 0.18% L-Methionine
- 0.34% L-Tyrosine
- 0.14% L-Cystine

PRODUCT SPECIFICATIONS:

Weight per gallon10.4 lbs.
 Weight per liter..... 1.24 kg
 pH7-8

PRODUCT DESCRIPTION:

Compost De-Thatcher is a unique blend of nitrogen, slow release nitrogen and a concentrated source of naturally occurring soil digesting microbes, and powerful enzymes that break down specific components of organic materials in thatch and compost materials.

- **PROTEASE, CELLULASE AND ENZYMES**
- **SPEEDS UP THE COMPOSTING PROCESS**
- **GET RID OF STUBBORN THATCH**

The breakdown of complex organic materials is often very difficult because of the high ratio of lignin and cellulose fibers. It requires a balance of nitrogen, naturally occurring soil microbes, select enzymes. Adjustment in the ratio of C/N is essential for this breakdown to occur. This decomposition requires microbial activity to break down. If any one of these elements is missing, thatch formation in turf will increase, severely interfering with the turf's ability to absorb nutrients and water.

The specific microbes contained in De-Thatcher when applied to the compost materials produce significant quantities of protease and cellulase that will digest protein contained in thatch and other organic compounds. Bacillus also produces cellulase, amylases, lipases, xylanases, and pectinases, which break down organic matter into valuable nutrients. Excellent for accelerating composting of any organic waste materials.

Turf Application Recommendations

Application	Rate / 1,000 FT ² (100 m ²)	Frequency
Thatch Accumulation	10-12 oz in 1- 3 gallons of water (290 -350 ml in 4-10 L water)	Apply in early spring when soil temp reaches 45°F (7°C) Apply every 30 days for 3 - 4 months
Bentgrass Tees & Greens Maintenance	4 -6 ounces in 1- 3 gallons of water (120 - 180 ml)	Early spring & Early fall
Bluegrass and Other Northern Grasses	4 oz in 1-3 gal water (120 ml in 4-10 L water)	Early spring & Early fall
Bahia, Centipedegrass, Tall Fescue, St Augustinegrass Zoysiagrass	5-6 oz in 5 gallons of water (150 - 180 ml in 19 L water)	Early spring & Early fall
Bermuda	8-10 oz in 3-5 gal water (240-290 ml in 10-20 L water)	Early spring & Early fall
Athletic Fields	4 oz in 3-5 gal water (118 ml in 10-19 L water)	Early spring & Early fall

Composting

Rate per cu. yd.	Frequency/ Notes
1 qt. in sufficient water for good coverage.	For general compost materials apply every 21 days or needed.
1 - 2 gal per cu. yd	For highly fibrous material such as corn stubble, wood chips, crop waste materials.

THE C/N RATIO:

The unique nitrogen source contained in Compost De-Thatcher is a synthetic organic compound (carbon / nitrogen molecule). This slowly available nitrogen provides both carbon and nitrogen for soil microorganisms. With the addition of De-Thatcher, the C/N ratio - as it narrows - further encourages decomposition of organic residues.

Mixing: De-Thatcher can be tank mixed with other technical materials. Use all of tank mix solution within 6 hours. SHAKE WELL BEFORE USING. DO NOT FREEZE

FIRST AID	
IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.
You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on The Globally Harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)

WARNING



H317 May Cause an Allergic Skin Reaction
H320 Causes Eye Irritation
H335 May Cause Respiratory Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

Manufactured in the USA By: 

