

AWAKEN[®] 16-0-2

MULTI-PURPOSE FERTILIZER ADDITIVE FOR USE
ON MANY CROPS

GUARANTEED ANALYSIS

Total Nitrogen (N)	16.00%
5.7% Ammoniacal Nitrogen	
3.4% Nitrate Nitrogen	
6.9% Urea Nitrogen	
Soluble Potash (K ₂ O)	2.00%
Boron (B)	0.02%
Copper (Cu)	0.15%
0.15% Chelated Copper (Cu)	
Iron (Fe)	0.15%
0.15% Chelated Iron (Fe)	
Manganese (Mn)	0.15%
0.15% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0006%
Zinc (Zn)	2.70%
0.15% Chelated Zinc (Zn)	

Derived From: Urea Ammonium Nitrate, Anhydrous Ammonia, Potassium Nitrate, Sodium Borate, Copper Citrate, Iron Citrate, Manganese Citrate, Sodium Molybdate, Zinc Oxide, Zinc Citrate.

KEEP OUT OF REACH OF CHILDREN
CAUTION

F1548

See Inside For Additional Precautionary Statements.



Density: 10.20 lbs/Gallon @ 68° F.

Liquid Measure: 2½ Gallons (9.46 liters)

Net Weight: 25.50 lbs. (11.6 kg)

AWAKEN_A1612rev

Guaranteed By:

LOVELAND PRODUCTS, INC. • P.O. BOX 1286, GREELEY, COLORADO 80632-1286



PRECAUTIONARY STATEMENTS

CAUTION

May be harmful if swallowed, inhaled or absorbed through skin. May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Eye protection and gloves are suggested when handling undiluted product. Wash thoroughly after handling. Contains ammonia. Contents may be under pressure. Use caution when opening.

CAUTION: This product is to be used on crops which respond to molybdenum. Crops high in molybdenum may be toxic to grazing animals (ruminants).

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

STORAGE AND DISPOSAL

STORAGE: Store in original containers only. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. LOSS OF AMMONIA WILL CAUSE PRODUCT TO SOLIDIFY. Store in a cool, dry, well ventilated place, preferably in a locked storage area. Store out of direct sunlight.

PRODUCT DISPOSAL: If possible, dispose of excess product by use according to label directions. Contact your state environmental agency or the hazardous waste representative at your EPA Regional Office for guidance on other approved practices.

CONTAINER DISPOSAL: Do not reuse container for other purposes. Triple rinse container, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

GENERAL INFORMATION

AWAKEN® 16-0-2 is a plant nutrient solution that contains a proprietary combination of anhydrous ammonia and zinc, in a super soluble, neutral pH formulation. When used as a supplement to a regular fertilizer program, this product may improve vigor, quality, production and stress tolerance in a broad range of crops. It will not by itself provide all the nutrients normally required by crops.

AWAKEN 16-0-2 can be used for a number of different applications, such as:

Soil applications	Transplant solutions
Foliar applications	Dry fertilizer impregnation

A few of the crops that can be treated are:

Corn	Soybeans	Wheat	Sugarbeets	Cotton
Grain Sorghum	Sunflowers	Tomatoes	Potatoes	Dry Beans
Alfalfa	Snap Beans	Cabbage	Cucurbits	Carrots
Celery	Okra	Onions	Many Others	

General information for these applications is provided on this label. Consult current product bulletins for additional information.

EQUIPMENT

Brass, copper and galvanized metals may be subject to mild corrosion from prolonged or repeated contact with this product.

COMPATIBILITY

AWAKEN 16-0-2 can be applied alone or with other compatible spray materials. Ammonium polyphosphate fertilizers tend to be more compatible than orthophosphate types. Including some polyphosphate in the mixture often improves compatibility of orthophosphates. Proposed mixtures should be evaluated in a jar test before full scale use. Fertilizer based mixtures that also contain pesticides should be sprayed as soon as possible.

Note: When combining **AWAKEN 16-0-2** with phosphate fertilizers vigorous agitation is required for good product mixing. See mixing directions below for more information.

MIXING INSTRUCTIONS

For certain uses, such as in-furrow injection, **AWAKEN 16-0-2** is often used undiluted. Depending on desired row spacing, flow rate and other factors, dilution with water may be desirable. Mix only enough material for use on the day of application.

In combination with water based mixtures, nitrogen solutions, or pesticides, mix as follows: 1). Fill mixing tank about ½ full with water. 2). Start agitation and add required amount of **AWAKEN 16-0-2**. 3). Finish filling tank with water and pesticide. Continue agitation until tank is emptied. Apply the spray mixture as soon as possible and avoid storing for prolonged periods.

Note: When combining **AWAKEN 16-0-2** with phosphate fertilizers, mix as follows: 1). Add a small amount of fertilizer to the mixing tank.

2). Start bypass agitation, then add the required amount of **AWAKEN 16-0-2**, and vigorously agitate until it is completely mixed into solution.

3). Add remaining phosphate fertilizer and continue agitation until tank is emptied. When phosphate fertilizers are combined with **AWAKEN 16-0-2**, bypass agitation alone does not provide sufficient agitation to ensure a good product mixture. Remove in line strainers on the suction side of the pump when combining **AWAKEN 16-0-2** with phosphate fertilizers.

For applications such as side dress, **AWAKEN 16-0-2** can be mixed with many starter fertilizers. Check compatibility of specific combinations before use.

APPLICATIONS

Broadcast, Band or Side Dress Applications to Soil: Apply at the rate of 2 to 4 quarts per acre. Typical application timing is from two weeks preplant through early cultivations or early postemergent crop stages. Row crops generally respond better when the product is applied closer to the seed furrow. Best results may be obtained when **AWAKEN 16-0-2** is incorporated or injected below the soil surface. Rainfall or irrigation soon after application may also aid in achieving proper placement. For certain vegetable crops and gardens, a band application over the planted row followed by watering-in is a useful method of application.

In-Furrow Injection Application to Soil: Apply at the rate of 1½ to 2 quarts per acre at planting. Injection equipment must be calibrated using **AWAKEN 16-0-2** in order to deliver the recommended amount. Consult equipment manufacturer's literature for calibration procedure. If dilution is necessary to obtain proper flow rate, use only clean water or microfiltered 28-0-0 for dilution. If pesticides are added, check compatibility and follow label precautions and directions for each product used. Be sure to calibrate using the same mixture that will be applied. Injection pump units for planter or drill mounting are available from Custom Ag Products, Inc., Benson, Minnesota.

Drip Irrigation Systems: Apply 1½ to 2 quarts per acre several times from preplant through seedling and early vegetative crop stages. Regular growing season use may be desired for established groves or orchards, although spring is probably the best time for a single application. For new plantings, apply in spring. Use a backflow prevention device to avoid contamination of the water supply. **Foliar Applications:** For foliar applications, apply at the rate of 1½ to 2 quarts per acre. Use a minimum spray volume of 5 gallons of water per acre by air and 8 gallons of water per acre by ground. Several applications per growing season may be beneficial. Consult with local agricultural advisors regarding potentially sensitive crop varieties. If applied through a sprinkler system, use a backflow prevention device to avoid contamination of the water supply.

Transplant Solutions: Apply at the rate of 1½ to 2 quarts per acre in sufficient water to thoroughly drench soil around transplants and move AWAKEN 16-0-2 into the root zone. Approximately 50 to 200 gallons of water per acre may be needed, depending on equipment. A compatible high phosphate fertilizer, such as 10-34-0 or 8-31-4, may be added if desired. (Ammonium polyphosphate fertilizers are preferred.) Many transplant programs use about 2 quarts per acre of such fertilizer. Add this product to water first and then add fertilizer. Seedbeds can be treated similarly soon before or after seeding.

Dry Fertilizer Impregnation: Many dry fertilizers may be impregnated with AWAKEN 16-0-2. Treat such that the 1½ to 2 quarts per acre application rate will be achieved when the dry fertilizer is spread. Blends containing at least 50% of a mixture of potassium chloride, ammonium phosphate and/or nitrate type fertilizers are generally suitable for impregnation. Apply AWAKEN 16-0-2 uniformly to the dry blend using a spray bar in the blender, a nozzle mounted on an auger, a nozzle mounted over a conveyor, or other similar setup. Use 28-0-0 to dilute AWAKEN 16-0-2 if additional spray volume is needed for coverage. For best results, dry blends must be applied to soil uniformly and should be incorporated into the root zone of the crop. Use the blend as soon as possible after blending.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

California Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.regulatory-info-lpi.com/>

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