



ORBIX™

8-5-3

Ammonia Free Foliar Nutrient Solution

GUARANTEED ANALYSIS:

Total Nitrogen (N)	8.0%
7.5% Urea Nitrogen	
0.5% Other Water Soluble Nitrogen	
Available Phosphate (P ₂ O ₅)	5.0%
Soluble Potash (K ₂ O)	3.0%
Boron (B)	0.02%
Cobalt (Co)	0.0005%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

Derived from: Urea, Protein Hydrolysate, Potassium phosphate, sodium tetraborate, cobalt sulfate, sodium molybdate, iron EDTA, copper EDTA, manganese EDTA, and zinc EDTA.

The chelating agent is EDTA (ethylenediaminetetraacetic acid).

Contains 1.65 lbs. of plant nutrients per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING

May be harmful if swallowed
 May be harmful in contact with skin
 Causes eye irritation
 Causes mild skin irritation
 May be harmful if inhaled
 May cause an allergic skin reaction



WARNING: Contains **Boron** and **Molybdenum**. Do not use on plants sensitive to **Boron**. Forage crops high in **Molybdenum** may be toxic to grazing ruminant animals. Foliar fertilization is intended as a supplement to a regular fertilization program and will not, by itself, provide all the nutrients normally required by agricultural crops.

NET CONTENTS: □ 2.5 Gallons (9.46 Liters) SN 071318HAE
 □ 265 Gallons (1003.1 Liters)

WEIGHT PER GALLON: 10.27 Lbs (4.66 kg) @ 68° F

MANUFACTURED FOR

HELENA AGRI-ENTERPRISES, LLC
 225 SCHILLING BOULEVARD, SUITE 300
 COLLIERVILLE, TENNESSEE 38017
 901-761-0050



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

May be harmful if swallowed. May be harmful in contact with skin. Causes eye irritation. Causes mild skin irritation. May be harmful if inhaled. May cause an allergic skin reaction. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

Personal Protective Equipment (PPE): Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks. Do not smoke, drink, or eat while using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID

IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	Call a POISON CENTER or doctor immediately. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.
IF INHALED:	Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a POISON CENTER or doctor for treatment advice.
IF ON SKIN OR HAIR:	Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate. Keep locked up and out of the reach of children.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinse water to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at www.acrecycle.org. Decontaminated containers may also be disposed of in a sanitary landfill.

For help in chemical emergencies involving spill, leak, fire or exposure call toll free 1-800-424-9300.

GENERAL INFORMATION

ORBIX™ is an ammonia free foliar nutrient solution that provides plants with many of the necessary elements required for growth. It is formulated to improve the vigor and provide strong plant growth of vegetables, fruits, and field crops. **ORBIX™** is also formulated to allow use with herbicide systems that prohibit ammoniacal nitrogen. It provides trace elements and plant nutrients which improves the general plant condition and is a valuable supplement to soil fertilizer programs, particularly where there are adverse conditions for the uptake of primary nutrients from the soil.

PHYSICAL PROPERTIES

Temperature Sensitivity: Unaffected down to 5°C or 41°F. Lower temperature will result in partial crystallization but the product will reconstitute above 5°C or 41°F.

Compatibility: **ORBIX™** is compatible with most fungicides, insecticides and herbicides, some exceptions are alkaline mixtures like lime sulfur. Compatibility tests are recommended prior to use.

***Do not mix with copper fungicides.**

RECOMMENDATIONS

ORBIX™ may be applied to many crops (including row crops) since all plants are capable of absorbing nutrients through the leaves. The application of **ORBIX™** is also recommended in combination with herbicidal sprays in many row crops and cereals. It may be applied with herbicides that prohibit the addition of ammonium nitrogen when approved by the manufacturer.

DIRECTIONS FOR USE

ORBIX™ can be used in all crop protection sprays with minimum spray volumes of 5 gallons/acre by ground and 2 gallons/acre by air.

The following table is a guide for the use of **ORBIX™** as a plant nutrient. Rates and frequency of application will depend on individual management programs. Use of **ORBIX™** on any crops not listed on this table must be as a result of recommendations from your local agricultural authority.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SUGGESTED RATE AND USE ⁽¹⁾		
CROP	RATE	REMARKS
Field Crops: Bean crops ⁽²⁾ , canola, clover, corn ⁽²⁾ , cotton, peanut, potato, rape (canola), rice, sorghum, soybean ⁽²⁾ , sugar beet ⁽²⁾ , sugarcane, sunflower, tobacco ⁽²⁾ and wheat ⁽²⁾ /barley ⁽²⁾ /oat	1 quart/Acre	Can be mixed with herbicides, fungicides or insecticides. Repeat applications as needed after 10-14 days.
Vegetable Crops: Asparagus, beet, carrot ⁽²⁾ , cruciferous, fennel, herbs, leafy vegetables, melon ⁽²⁾ , onion/garlic, cucurbits, eggplant, pepper, squash, strawberry, sweet potato, tomato ⁽²⁾ , etc.	2-3 pints/Acre	Begin first application after transplanting, then every 10-14 days as needed.
Fruit and Nut Crops: Almond, apple, apricot, avocado, berry crops, cherry, citrus, date plum, fig, filbert, grapes, hazelnut, hops, nectarines, olive, persimmon, peach, pear, pecan, pistachio, plums/prune, pomegranate, subtropical fruit, walnut, etc.	2-3 pints/Acre	Apply with pre- and post-blossom crop protection sprays. In general apply in 10-14 day intervals.
Forage Crops: Alfalfa ⁽²⁾ , fescue, forage grasses, etc.	1 quart/Acre	Apply when plants are 3-6 inches high before first cut and then 10-14 days before each cutting.

Note ⁽¹⁾: Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan. For higher rates than suggested contact your local Helena Agri-Enterprises, LLC representative.

Note ⁽²⁾: **FOR USE IN WISCONSIN:** **ORBIX™** can be applied to these crops commonly grown in Wisconsin and requiring a medium to high level of one or more of the following: boron, copper, manganese, molybdenum and/or zinc.

NURSERY & GREENHOUSE: Use 1 quart per 100 gallons of water on plants, flowers, shrubs and trees for direct spray to foliage and for transplanting work. For preparing transplant slurry add 2 ounces per 3 gallon bucket of puddled soil. NOTE: In a sprinkler system, use 1 pint per 100 gallons or more of water every 2-3 weeks or 4 ounces per 100 gallons or more of water 2-3 times a week per 400 sq. ft. of area. Do not apply prior to 21 days after planting.

ALL TURFGRASS AREAS: The type of grass, color and rate of growth will dictate rate and frequency of application. 1 quart (.75 oz / 1000) to 2 gallons / acre monthly during the growing season.

ORBIX™ can be combined with all plant protectants applications (see Compatibility). Apply 1 qt. in 100 gallons of water per 5,000 sq. ft. or 6 oz. in 10 gallons per 1,000 sq. ft. Apply monthly starting February or March. More frequent applications for desirable color and growth. Apply through fertigation or conventional sprayer.

DO NOT APPLY NEAR WATER, STORM DRAINS, OR DRAINAGE DITCHES. DO NOT APPLY IF HEAVY RAIN IS EXPECTED.

In Virginia, this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf. This product is being used in accordance with a soil test that was conducted by a laboratory identified under § 8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application.

CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full price will be refunded.

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC (the "Company") or the seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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