Asset PPS

FOR USE IN PRECISION PLACEMENT SYSTEM APPLICATION EQUIPMENT

5-15-1

GUARANTEED ANALYSIS

Total Nitrogen (N)	5.00%	Manganese (Mn)
5.00% Ammoniacal Nitrogen		0.05% Chelated Manganese (Mn)
Available Phosphate (P ₂ O ₅)	15.00%	Molybdenum (Mo)
Soluble Potash (K ₂ O)	1.00%	Zinc (Zn)
Boron (B)		0.05% Chelated Zinc (Zn)
Copper (Cu)	0.05%	, ,
Iron (Fe)	0.10%	

0.10% Chelated Iron (Fe)
Derived from polyammonium phosphates, ammonium carboxylates, potassium phosphates, phosphoric acid, manganese EDTA, copper EDTA, zinc EDTA, iron HEDTA, sodium octaborate and sodium molybdate.

The chelating agent is EDTA (ethylenediaminetetraacetic acid) and HEDTA (hydroxyethylenediaminetetraacetic acid).

CAUTION

CAUTION: Contains BORON and MOLYBDENUM. Crops sensitive to BORON and/or MOLYBDENUM may be injured. Plants containing excess amounts of MOLYBDENUM are toxic to grazing ruminant animals.

See Inside Panel for Additional Precautionary Statements.

SN 1102/1208

Contains 2.1 lbs. of plant nutrients per gallon.

Contains Protected Technology

WEIGHT PER GALLON: 9.96 lbs. (4.52 kg)

NET CONTENTS:

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017, and giving the lot number which is found on the container.

Information regarding the contents and levels of metals in this product is available on the Internet at http://www.aapfco.org/metals.htm.

F224

MANUFACTURED FOR

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TENNESSEE 38017

PEEL BACK BOOK HERE AND RESEAL AFTER OPENING

PRECAUTIONARY STATEMENTS CAUTION

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITION OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.

May be harmful if swallowed, inhaled, or absorbed through skin. May cause eye irritation. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The degree of spray application drift hazards varies with type of products, application conditions, and vegetation near the spray area. Drift minimization is the responsibility of the applicator. Always consult your local and state agricultural authorities for information regarding avoiding or minimizing spray drift. In addition, follow precautionary statements on accompanying pesticide label(s).

WHAT TO DO IN CASE OF CONTACT:

IF INHALED: Move victim to fresh air. Give artificial respiration if needed. See a physician.

IF SWALLOWED: Give a large amount of water to drink, make person vomit and immediately call a physician. Do not induce vomiting or

give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with clean water for at least 15 minutes. Call a physician if irritation persists.

IF ON SKIN: Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.

If contact is made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide label(s).

STORAGE AND DISPOSAL

Store in original container only. Keep packages tightly closed and do not allow water to be introduced to container contents. Do not store this product near heat or open flame. This product will freeze at temperatures less than 30°F. Thawing occurs readily at temperatures greater than 30°F.

Container Disposal: Empty packaging should be offered for recycling or disposal in accordance with Federal, State and Local authorities. If packaging is burned, stay out of smoke.

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

GENERAL INFORMATION

ASSET® PPS is a plant nutrient solution that contains a proprietary fertilizer additive designed for use in Precision Placement System (PPS) application equipment. ASSET® PPS applications are also possible through conventional fertilizer spray equipment.

This fertilizer is intended as a supplement to a regular fertilizer program and may not, by itself, provide all the nutrients required by crops or other intended plants.

USE RECOMMENDATIONS

For in-furrow, banded, side dressed or drill applications, use **ASSET® PPS** at the rate of 16–64 oz. (1–4 pints) per acre. Use lower rates when using direct in-furrow applications and higher rates when banding or side dressing.

In drip irrigation, apply 1-4 pints of **ASSET® PPS** per acre.

ASSET® PPS is compatible with a wide range of fertilizers and micronutrients when used at the manufacturers recommended use rates. However, it is recommended that a "jar test" be performed prior to the actual application. In the event of compatibility problems, the addition of a stabilizing/compatibility agent such as **BUFFER P.S.™** is recommended.

For applications through PPS equipment, follow the calibration and use guidelines below:

OPERATION

Place adequate chemical in the tank and check to ensure all connections are right. Turn on the pump at the cab control using lighted rocker switch and turn the control knob to the max position.

Priming the first time may take a few minutes. If pump fails to prime, loosen check on the T-Body nearest the "T", tighten as soon as pumps starts to prime. Once the liquid reaches the pump, pressure will begin to slowly rise as liquid enters the main trunk line and air is purged out of the system.

Operate at full pressure (60 psi max.) making sure all Micro-TubesTM are flowing and that there are no leaks. After checking for operation of all tubes and ensure there are no leaks, adjust to desired operating pressure, as determined in the calibration procedure, using the control knob in the cab. Pressure may take a few seconds to stabilize.

CALIBRATION

Note: The manufacturer does not recommend application rates or pressure settings. The manufacturer is not responsible for misapplication. The operator is responsible for making certain the output is correct. This is done by actually using a calibration tube to catch the output for a specified time to determine the correct operating pressure. If there are any questions, please contact your Helena Chemical Sales representative or call Helena Chemical Parts Division at 1-800-235-9531.

Using the following formula OR chart, determine the number of milliliters per minute per row. Then follow the next steps.

Formula

Flow (ml/min/row) = [Rate (oz/acre) x Speed (mph) x Width (inches/row)] / 200.6

Chart

Shows ml/min/row

Rate		<u>3 mph</u>	<u>4 mph</u>	<u>5 mph</u>	<u>6 mph</u>	<u>7 mph</u>	8 mph
16 oz/ac	30" Rows	7.1	9.5	12.9	14.3	16.7	19.1
32 oz/ac	30" Rows	14.3	19.1	23.9	28.7	33.5	38.2
48 oz/ac	30" Rows	21.5	28.7	35.8	43.0	50.2	57.4
64 oz/ac	30" Rows	28.7	38.2	47.8	57.4	66.9	76.5

Be sure to use undiluted **ASSET® PPS** when calibrating. **Do not calibrate using water.** Also, make sure all air is purged from the lines and all lines are flowing.

Start by operating the system at approximately 15 PSI, allow the pressure to stabilize. Catch the output from one row for one minute. Compare the output with the above table. Readjust the pressure to a new level and repeat this process until you obtain the right flow.

PRECAUTIONS

Consult the ASSET® PPS label for precautions and safe handling.

Periodically check to make sure all Micro-Tubes™ are working. This is most easily accomplished by observing the actual output.

Flow should be checked periodically and recalibrated, if necessary.

Shut the pump off immediately if the pressure drops rapidly. The problem could be a damaged supply line.

Due to pressure build up in the trunk line and low flows, several seconds are required after the pump is turned off before the ASSET® PPS flow

If diluted ASSET® PPS is used, recalibrate the system. Do not cut Micro-Tubing™ except to repair the delivery end. Always use a sharp razor to cut.

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 purchase price will be refunded.

This label is believed to be reliable and should be followed carefully. 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 Chemical Company (the "Company") or 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 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.

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 Chemical Company'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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ASSET® is a registered trademark of Helena Holding Company. BUFFER P.S.™ is a trademark of Helena Holding Company.

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Copper (Cu)								
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KEEP OUT OF REACH OF CHILDREN

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