

NUTRIENTS SUPPLIED (pounds per litre):

Total Nitrogen (N).....	0.092
Available Phosphate (P ₂ O ₅).....	0.552
Soluble Potash (K ₂ O).....	0.552

PRODUCT PROPERTIES:

Weight:	13.9 kg/L
Specific gravity:	1.39 - 1.40 kg/L
pH:	7.4 – 7.8
Appearance:	clear liquid
Odour:	may have slight ammonia odour

GENERAL PRODUCT INFORMATION:

ALPINE HKW18® liquid fertilizer is manufactured by utilizing quality raw materials to provide a very agronomically efficient source of N-P-K. The quality of the raw materials used to formulate ALPINE HKW18 liquid fertilizer:

- maximizes plant nutrient solubility
- minimizes salt index
- minimizes equipment corrosion
- allows good cold weather storage
- is plant safe at recommended rates

One hundred percent of the phosphate is present in the orthophosphate form that is immediately available for plant absorption and metabolism. During times of limited phosphate and potassium availability (eg: cold and wet spring soil conditions present at planting), ALPINE HKW18 liquid fertilizer provides a phosphate and potassium source that is positionally and nutritionally available.

FIRST AID: Please see MSDS sheet for more information, call (800) 265-2268 or visit us online at www.alpinepfl.com.

SELLER WARRANTS THAT THE ABOVE PRODUCT CONFORMS TO ITS CHEMICAL DESCRIPTION AND IS REASONABLY FIT FOR THE PURPOSE ON THE LABEL WHEN USED IN ACCORDANCE WITH DIRECTIONS UNDER NORMAL CONDITIONS OF USE (INCLUDING NORMAL WEATHER CONDITIONS). NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXPRESS OR IMPLIED, EXTENDS TO THE USE OF THIS PRODUCT WHEN USED CONTRARY TO THE LABEL INSTRUCTIONS OR UNDER ABNORMAL CONDITIONS (INCLUDING ABNORMAL WEATHER CONDITIONS), AND THE BUYER ASSUMES THE RISK OF ANY SUCH USE. ALPINE STARTER OR FOLIAR APPLICATIONS ARE INTENDED TO SUPPLEMENT EXISTING SOIL FERTILITY PROGRAMS AND WILL NOT BY ITSELF PROVIDE ALL THE NUTRIENTS NORMALLY REQUIRED BY AGRICULTURAL CROPS.

*THESE ARE GENERAL PRODUCT RECOMMENDATIONS. PLEASE CONSULT WITH YOUR AUTHORIZED ALPINE RETAILER OR ALPINE DISTRICT SALES MANAGER FOR SPECIFIC FERTILITY RECOMMENDATIONS.



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product recommendations • • • • •

IN-FURROW RECOMMENDATIONS*:

Row Width:	Max L/A:
CORN - GRAIN:	
30"	15-20
CORN - SEED/SWEET:	
30"	11-16
WHEAT, BARLEY, RYE, AND OATS:	
6-8"	22-30
SOYBEANS/EDIBLE BEANS:	
28-30"	8
19-21"	12
14-16"	15
6-8"	20

*On light, sandy soils with organic matter of less than 2%, reduce rate by 2 litres per acre.

**Do not apply any combination of potash and urea blend preplant broadcast on this type of ground in combination with seed placed starters.

***Micronutrients: may be applied in combination with ALPINE HKW18 to a maximum of 2 litres per acre total micronutrient.

FOLIAR FEEDING GENERAL GUIDELINES:

CORN: 4-11 litres per acre. Foliar apply at the 3rd-5th leaf collar.

SOYBEANS: 4-11 litres per acre. Foliar apply at the 4th-6th trifoliolate, and then 80-85% podset.

SMALL GRAINS (INCLUDING CEREALS), DRY BEANS, SUGAR BEETS AND OTHER ROW CROPS: 4-11 litres per acre.

VEGETABLE CROPS: Use 4-8 litres per acre with 30-38 litres of water every 7-10 days on vegetable crops starting 10-15 days after transplant or at 2"-5" tall on seeded crops.

FRUIT TREES: Use 4 litres with 30-38 litres of water starting at bud swell in the spring and continue as needed.

For more specific foliar guidelines, consult with your authorized ALPINE Dealer or ALPINE District Sales Manager.

TRANSPLANT SOLUTION:

Use 4 litres per acre with 400 litres of water at set out.



ALPINE HKW18

WARNING: ALPINE HKW18 is not compatible with UAN solutions. Do not mix the two products together.



ALPINE GENERAL RECOMMENDATIONS

ALL FIELD CROPS OR DIRECT SEEDED CROPS

ALPINE® liquid fertilizer placed on or near the seed at planting time can stimulate early root growth and strengthen young plants. See the reverse side for recommended rates of ALPINE fertilizer. Consult with your authorized ALPINE Dealer or ALPINE District Sales Manager for specific fertility recommendations.

EARLY APPLICATIONS FOR SEEDED CROPS

Applications of ALPINE liquid fertilizers early in the plant's life can encourage development, increased growth, vigor, and yield potential. ALPINE liquid fertilizer may effectively be applied at the first to second true leaf stage directly to the small plant.

ALPINE LIQUID FERTILIZER FOR FOLIAR APPLICATIONS

- ALPINE liquid fertilizer is a highly soluble, low salt index formulation developed to supplement standard soil fertility practice.
- ALPINE liquid fertilizer provides an additional source of nitrogen, phosphorous and potassium during the growing season.
- ALPINE liquid fertilizer is designed to be used in conjunction with soil and tissue tests and professional recommendations to manage the nutrient levels and nutrient balance within the crop.
- ALPINE liquid fertilizer is in the form readily absorbed by plant tissue. In this form, nitrogen, phosphorous and potassium can be applied to the growing plant.
- ALPINE liquid fertilizer can be applied with most herbicides, insecticides, and fungicides.

FOLIAR APPLICATION:

Foliar feeding is one of the most efficient methods of supplying nutrients during critical growing stages. ALPINE foliar fertilizers provide available N-P-K and chelated micronutrients to make a good crop even better or it can supply a deficient, stressed crop the proper nutrients for a quick recovery. These products can also be customized and combined to ensure crop success.

ALPINE foliars are manufactured with the highest quality raw materials on the market today and includes only available, chelated micronutrients to maximize foliar absorption. ALPINE foliars can also be safely mixed with most insecticides, herbicides, and fungicides to help maximize yield potential (please follow proper mixing instructions).

ALPINE programs offer the following foliar products: micronutrients, N-P-K fertilizers, and slow release nitrogen products.

For more specific foliar guidelines, consult with your authorized ALPINE Dealer or ALPINE District Sales Manager for fertility recommendations.

MIXING INSTRUCTIONS:

ALPINE liquid fertilizers can mix with many crop production products. Some non-100% EDTA chelates may not be compatible.

- In a small container prior to full scale mixing, proportionally mix all the components to confirm compatibility.
- Thorough mixing of all blends is important.
- Temperature and storage time can influence the degree of success.
- Mix only the amount that will be immediately used.
- Long-term storage is not suggested.

MIXING PROCEDURE

- Add ½ of total water to spray tank
- Start recirculation in the tank
- Add micronutrients and or any other flowable material
- Add any soluble powder first pre-mixing with water
- Add the recommended amount of **ALPINE** liquid fertilizer
- Add remaining water volume and continue recirculation prior to spraying



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THE FOLLOWING CONDITIONS MUST BE OBSERVED IN ORDER TO APPLY ALPINE LIQUID FERTILIZER FOR FOLIAR APPLICATIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THE PLANTS.

- **DO** use ALPINE fertilizers under conditions of optimum plant growth including highest humidity, moderate temperature and adequate soil moisture.
- **DO** add, as a minimum, equal amounts of water. Do use sufficient water to provide thorough coverage.
- **DO** consult with your local ALPINE District Sales Manager to determine pesticides which are compatible with ALPINE fertilizer.
- **DO** add wettable or soluble powders, emulsifiables or flowables to water in the mix and wet, dissolve or disperse before adding ALPINE fertilizer.
- **DO** consult your local ALPINE District Sales Manager for rate and application instructions.
- **DO** use a small jar or container prior to full scale mixing to proportionally mix all the components to confirm compatibility.
- **DO NOT** use when the crop is under stress from pests, heat or inadequate soil moisture.
- **DO NOT** apply by aircraft if surface wind is greater than five miles per hour to assure adequate crop coverage and droplet disposition.
- **DO NOT** spray to run off. Do not spray to visible droplet coalescence. Do not allow concentrated spray mist to run off fruit or leaves.
- **DO NOT** apply during the heat of the day.
- **DO NOT** mix with calcium containing products unless the calcium is fully EDTA chelated.
- **DO NOT** mix fertilizers with hard water. Mixing with hard water may cause clogging of lines due to the combining of calcium, magnesium and iron in the water with phosphate in the fertilizer.