**GENERAL INFO AND USAGE NOTES:**

1. Cropaid NPA can reduce plants’ freezing point by up to 7 degrees Celsius. Do not spray an atomized mist all over the plant. Spray every 15-20 days. To improve yield and quality, apply at blossom and continue spraying every 15 days.

2. Always dilute Cropaid NPA with water for all applications. For best results, always use unchlorinated water. It is recommended to use water that has a pH level above 7.0. The correct atomizing level will depend on the atomizer used. Second application should be done after emergence if there is a cold and frost risk during spring. To improve mineral intake, yield and strength apply every 15-20 days.

3. To improve yield and quality, apply at blossom and continue spraying every 15 days.

4. Always dilute Cropaid NPA with water for all applications. For best results, always use unchlorinated water. It is recommended to use water that has a pH level above 7.0. The correct atomizing level will depend on the atomizer used. Second application should be done after emergence if there is a cold and frost risk during spring. To improve mineral intake, yield and strength apply every 15-20 days.

5. Cropaid NPA will have a different level of effect on different plants. This is based on the plant’s age, genetic properties, its growing environment, temperature and soil conditions and the additional fertilisers used on it. Not every plant can produce Antifreeze proteins and amino acids. If they can produce any, Cropaid NPA will make them produce more or all of them.

6. Concentrated Cropaid NPA has a pH value of 1.9-2.1, which is acidic. It must not be mixed with chemicals and pesticides with a pH level of more than 7 or wetting agents because it will block equipment used for pulverization. Cropaid NPA will lose all of its effects.

7. Choose serene weather for all applications. Unless it rains heavily after application, Cropaid NPA will provide protection after about 6 hours.

8. For best protection, apply two days before and two days after the worst weather. One application at least 6 hours before the frost, will give good protection.

9. Cropaid NPA will not work if the plants are under cold stress. It is recommended to apply at about 10am or 4pm at above 12 degrees Celsius for glasshouse plants and above 9 degrees Celsius for outdoor plants. If this is not possible, apply during the hottest time of the day.

10. The coverage of 1 kg (litre) of Cropaid NPA will depend on: a) the atomizing level of the sprayer; b) the plant size, c) the plant surface area, and d) the distance between the plants.

11. This product will temporarily assist the plants as described for up to 15 days but will not enable the plants to grow outside of their normal habitats.

12. In greenhouse cultures, Cropaid NPA will increase plants’ resistance to cold and frost injuries. Heating levels could be lowered and in some cases heating may not be needed at all.

13. The biomolecular content of Cropaid NPA is easily absorbed by the leaves, stem and roots of the plants. In a short period of time, plants begin to have heavy metabolic activity and their content of amino-acids, proteins, sugar, oil, vitamin, mineral and specially anthofood proteins will increase. Plant cells become bigger, heavier, shinier, more tasty and will have increased quality and yield.

14. Cropaid NPA gives plants more photosynthesis capabilities. This increases gomatic pressure and the water and nutrition intake in the roots of the plants. Therefore, plants can resist heat and air environment better. Leaves become thicker and healthier. These properties make plants stronger against the outside uncontrolled injuries.

15. When Cropaid NPA is applied to soil, it lowers the pH level. Thiobacillus spp bacteria take the hydrogen and the amount of pure Nitrogen taken to the soil is about 60-80 kg per hectare in a year.

16. Cropaid NPA will provide better results on healthy plants. It will not, however, cure a plant’s existing injuries.

**CROPaida LTD DOES NOT ACCEPT ANY LIABILITY DUE TO FAILURE TO FOLLOW THE CORRECT DOSAGE AND USAGE GUIDELINES**

- **TURF:** Before seeds or Turf are planted: Prepare the area by coating it with an atomized mist of Cropaid solution (100 litres of water per 1 litre of NPA). Then, break any clumps of mud and rack the ground to make it level. Plant the seeds and apply fertilisers or peat. If the area is to be seeded, the seeds should be put on a dry and clean cloth and sprayed with a solution of 350ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until they are dry before planting. Second application should be done 2 days before frost after emergence if there is a cold and frost risk. To improve mineral intake, yield and strength apply every 15-20 days.

- **LETTUCE:** First application should be done after the seeds emerge. After this, apply 2 days before if there is a risk of cold and frost. Use 450ml of Cropaid NPA diluted with 100 litres of water every 15-20 days.

- **CARROT, PARSNIP:** Before planting the seeds they should be placed on a dry and clean cloth and sprayed with 500ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until dry before planting. Second application: After emergence, if there is a risk of cold and frost. To improve yield and quality continue applying every 15 days.

- **TOMATO, CUCUMBER, PEPPER AND AUBERGINE:** This group of plants should be first treated when they are seeds. Before planting, the seeds should be put on a dry and clean cloth and sprayed with a solution of 500ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until dry before planting. Second application should be done if there is a cold and frost risk during spring. To improve mineral intake, yield and strength apply every 15-20 days.

- **PLUM:** First application: In autumn after all the leaves have fallen. In spring, apply when the buds start growing and during blossom. Apply 2-7 days after if there is a risk of cold and frost during spring. To improve mineral intake, yield and strength apply every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **WHEAT, BARLEY, RYE, OATS:** Before planting the seeds, they should be placed on a dry and clean cloth and sprayed with 500ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until dry before planting. Second application should be done after emergence if there is a cold and frost risk during spring. To improve yield and quality, continue applying every 15 days.

- **PLANTS:** Before planting, the seeds should be sprayed with 500ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until dry before planting. Second application should be done if there is a cold and frost risk during spring. To improve mineral intake, yield and strength apply every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **SUGAR CANE:** Before planting the seeds, they should be placed on a dry and clean cloth and sprayed with 500ml of Cropaid NPA diluted with 100 litres of water. Mix well and wait until dry before planting. Second application should be done after emergence if there is a cold and frost risk during spring. To improve yield and quality, continue applying every 15 days.

- **WALNUT:** To protect young plants, male and female flowers should be protected. In autumn after all the leaves have fallen, second application should be done 2 days before if there is a risk of cold and frost. After emergence if there is a risk of cold and frost. To improve mineral intake, yield and strength apply every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **BEANS, CHICKPEAS, PEA:** Cropaid NPA will protect this group of plants. Before planting, the seeds should be sprayed with 450ml of Cropaid NPA diluted with 100 litres of water and mixed well. Second application should be done if there is a risk of cold and frost. To improve yield and quality, continue applying every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **PLANTS:** In autumn after all the leaves have fallen. In spring, apply when the buds start growing and during blossom. Apply 2-7 days after if there is a risk of cold and frost during spring. To improve mineral intake, yield and strength apply every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **GRAPEVIN:** First application: In autumn after all the leaves have fallen. Apply two days before the cold and frost risk in spring. If there is a cold and frost, second application should be done 2 days before if there is a risk of cold and frost. To improve mineral intake, yield and strength apply every 15-20 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **CITRUS FRUIT, FRUIT TREES WITH NO LEAF FALL:** First application: In autumn during fruit growth. Apply one week before harvest and also if there is a risk of cold and frost during spring. To improve mineral intake, yield and strength apply every 2-10 days. Use 500ml of Cropaid NPA diluted with 100 litres of water.

- **WATER:** Prepare the area by coating it with an atomized mist of Cropaid solution (100 litres of water per 1 litre of NPA). Then, break any clumps of mud and rack the ground to make it level. Plant the seeds and apply fertilisers or peat. Make an earth and sand mixture (25% earth, 25% fine sand, 50% peat) and put through a filter to reduce to a finer consistency. Spread evenly over the ground 2cm thick and compress down with a cylinder press. After this, water it for the first time by applying 200 litres of water mixed with 1 litre of Cropaid NPA.

- **CROPS:** Every 15-20 days, apply an atomized solution of 200-250 litres of water per 1 litre of Cropaid NPA and spray over the grass to the point of run off. This amount will cover approximately 1000m2 area. Doing this will produce a good coverage. After each cutting session or every week, apply the same solution of Cropaid NPA for best results. Cropaid NPA has no effects on the yellow grass if it is already at the end of its ‘life’ and it is too old and long. During winter and summer, gardens and stadiums should always be green.
CROPAID Natural Plant Antifreeze®

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: CROPAID NATURAL PLANT ANTIFREEZE

PART No.: CNP901

APPLICATIONS: Horticultural Plant Antifreeze

SUPPLIER: Cropaid Ltd., Unit 11, Imperial Park Industrial Estate, Towerfield Road, Ockendon, Essex, SS3 9QT United Kingdom

E-MAIL: cropaid@aol.com

TEL: +44(0)1702 296888

FAX: +44(0)1702 297888

2. COMPOSITION/INFORMATION ON INGREDIENTS: BIOLOGICAL MATERIALS:

Made from a mixture of minerals and Thiobacillus subspecies’ bacteria. (T. Ferrooxidant; T. Thioparus.) Contains over 60 minerals, totaling 0.5 g per Kg.

3. HAZARDS IDENTIFICATION:

4. FIRST AID MEASURES:

5. FIRE FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

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Registered In England No: 5656078

E-mail: cropaid@aol.com

www.cropaid.com

Increases Plants’ Resistance To Heat, Cold and Frost

During the growth season, application of Cropaid NPA will make the plants produce antifreeze proteins (AFP) and antifreeze amino acids (AAA) to give the plants some extra heat, cold and frost resistance. During bud development, flowering and early fruiting stages, it increases the plants’ resistance to late spring cold weather injuries. Also, at the end of leaf growth it increases the plants’ resistance to early autumn cold weather injuries. It will reduce energy costs, improve yield and quality.

Cropaid NPA is produced using Thiobacillus subspecies bacteria and minerals in a SPECIAL formula, which is NATURAL and SAFE for the environment.