

# FRACTURE™

## FUNGICIDE



A fungicide for the control or suppression of powdery mildew, gray mold, and blossom blight in various crops and ornamentals.

### AGRICULTURAL

**GUARANTEE:** .....BLAD polypeptide 20%

**REGISTRATION NO: 31782**  
**PEST CONTROL PRODUCTS ACT**

**CAUTION – EYE AND SKIN IRRITANT**

**READ THE LABEL BEFORE USING**  
**KEEP OUT OF THE REACH OF CHILDREN**

**Net Contents: 3.79 L**

**Date of Manufacture:**

**Distributed By:**

**FMC**

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103

**Manufactured By:**  
CEV, S.A.  
Zona Industrial de Cantanhede, LT 120  
3060-197 Cantanhede  
Portugal

### DIRECTIONS FOR USE:

#### GENERAL INFORMATION

FRACTURE FUNGICIDE is a broad spectrum, preventive biofungicide formulated as a suspension concentrate containing 20 percent active ingredient. FRACTURE FUNGICIDE is recommended for the control or suppression of many important plant diseases. It may be applied as a foliar spray in alternating spray programs with other registered pesticides. FRACTURE FUNGICIDE may be applied with spray equipment commonly used for making ground applications.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**Preparation of the Spray Solution:** Insure the spray tank is clean and free of residues from previous spray treatments. Fill the spray tank  $\frac{3}{4}$  full with clean water. Shake the container and pour the required amount of FRACTURE FUNGICIDE into the sprayer tank while the tank agitation system is operating. Add specified amount of FRACTURE FUNGICIDE while filling with the appropriate amount of water into the spray tank. Maintain agitation. Do not store the mixture overnight.

**Spray Volume:** Apply FRACTURE FUNGICIDE in a minimum of 100 litres of spray solution per hectare, except as noted under "GENERAL" for each crop. Increase spray volume as crop growth increases to ensure thorough coverage of the foliage and fruit. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied.

#### ORCHARD AND VINEYARD CROPS: Airblast sprayer

To achieve optimum pest control, it is important to obtain thorough and uniform spray coverage of the plant. Choose a finished spray volume appropriate for the size of tree or vine and amount of foliage that will provide thorough coverage throughout the canopy. For certain pests, also follow recommendations listed under specific crop directions. Use higher dosage rates for heavy infestations or dense foliage. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of disease infestation.

**Compatibility:** Do not tank mix with products containing a prohibition against tank mixing. Do not mix FRACTURE FUNGICIDE with foliar fertilizers. Follow the most restrictive labeling requirements of any tank mix product. To determine the physical compatibility of FRACTURE FUNGICIDE with other products use a jar test. The following procedure should be followed: Pour the specified proportions of the products into a suitable container of one litre of water; mix thoroughly and allow to stand for at least 15 minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered a homogeneous solution and physically compatible. If separation occurs (e.g. oils float to top, clumps of solids form, etc.), the combination is incompatible and cannot be used. For further information, contact your local dealer representative.

**Use of Adjuvants:** The use of adjuvants with FRACTURE FUNGICIDE is not required.

**Pre-Harvest Interval:** FRACTURE FUNGICIDE can be applied up to and during the day of harvest.

**USE DIRECTIONS (Applications, Rates, Timings)  
GRAPE:**

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF FRACTURE FUNGICIDE
GRAPE	Botrytis bunch rot/gray mold ( <i>Botrytis cinerea</i> ) Powdery mildew (Erysiphe necator Schw.)	1.5-3.3 L/ha

**GENERAL:**  
Apply in a minimum of 375 litres of spray solution per hectare. Increase spray volume as vine growth increases in order to provide thorough coverage of vines and fruit for optimum disease control. The rates on the FRACTURE FUNGICIDE label reflect the amount of product that should be applied uniformly over a hectare of ground on a broadcast basis.

**Powdery Mildew**  
Apply in a preventive spray schedule. Make the first application of FRACTURE FUNGICIDE before bloom and continue applications every 7 to 10 days Use higher rates and a shorter spray schedule when disease pressure is moderate to severe.

**Botrytis bunch rot/gray mold**  
For control of Botrytis bunch rot apply FRACTURE FUNGICIDE prior to onset of disease development when conditions favor Botrytis development during early bloom, bunch pre-closure, veraison and ripening up to the harvest day.

**PRECAUTIONS:**  
PROBLAD PLUS is a contact fungicide with penetration properties. BLAD is the active ingredient which degrades the fungal chitin. Alternate applications with another effective fungicide with a different mode of action.  
PROBLAD PLUS requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

**RESTRICTIONS:**  
- Do not make more than five foliar applications of FRACTURE FUNGICIDE per crop season.  
- Do not make more than two sequential applications of FRACTURE FUNGICIDE before alternating to a labeled fungicide with a different mode of action.  
- FRACTURE FUNGICIDE may be applied up to and including the day of harvest

**STRAWBERRY**

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF FRACTURE FUNGICIDE
STRAWBERRY	Botrytis gray mold ( <i>Botrytis cinerea</i> ) Powdery mildew ( <i>Podosphaera aphanis</i> syn <i>Sphaerotheca macularis</i> ).	1.5-3.3 L/ha

**GENERAL:**  
Begin applications of FRACTURE FUNGICIDE at early bloom and continue on a 7 to 10-day interval if conditions continue to favor disease development. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval. Apply in a minimum of 450 litres of spray solution per hectare with conventional ground application equipment except when using an electrostatic sprayer where a minimum of 100 litres of spray solution may be used. Thorough coverage is important for optimum disease control.

**PRECAUTIONS:**  
FRACTURE FUNGICIDE is a contact fungicide with penetration properties. BLAD, is the active ingredient which degrades the fungal chitin. Alternate applications with another effective fungicide with a different mode of action.  
FRACTURE FUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

**RESTRICTIONS:**  
- Do not make more than five foliar applications of FRACTURE FUNGICIDE per harvest cycle.  
- Do not make more than two sequential applications of FRACTURE FUNGICIDE before alternating to a labeled fungicide with a different mode of action.  
- FRACTURE FUNGICIDE may be applied up to and including the day of harvest.

**TOMATO**

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF FRACTURE FUNGICIDE
TOMATO	Botrytis gray mold ( <i>Botrytis cinerea</i> )	1.5-3.3 L/ha

**GENERAL:**  
Begin applications of FRACTURE FUNGICIDE prior to onset of disease development and continue on a 7 to 10-day interval to maintain disease control. Under conditions of moderate to severe disease pressure, use the higher labeled rate and shorter interval. Apply the specified rate of FRACTURE FUNGICIDE as a foliar spray in a minimum of 200 litres or more of water per hectare to assure thorough coverage of the plants.

**PRECAUTIONS:**  
FRACTURE FUNGICIDE is a contact fungicide with penetration properties. BLAD is the active ingredient which degrades the fungal chitin. Alternate applications with another effective fungicide with a different mode of action.  
FRACTURE FUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

**RESTRICTIONS:**  
- Do not make more than five foliar applications of FRACTURE FUNGICIDE per harvest cycle.  
- Do not make more than two sequential applications of FRACTURE FUNGICIDE before alternating to a labeled fungicide with a different mode of action.  
- FRACTURE FUNGICIDE may be applied up to and including the day of harvest.

**STONE FRUIT & ALMOND**

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF FRACTURE FUNGICIDE
Almond Apricot Cherry Nectarine Peach Plum Prune	Blossom blight ( <i>Monilinia fructigena</i> , <i>M. laxa</i> )	1.5-3.3 L/ha

**GENERAL:** Apply FRACTURE FUNGICIDE in a minimum spray volume of 450 litres per hectare. Use higher rates and shorter intervals for varieties that are highly susceptible to the indicated disease or when moderate to severe disease conditions exist.

**Stone Fruit and Almond:** For control of blossom blight, begin application at pink, white or red bud depending on the crop. Make a second application at full bloom and if conditions remain favorable for disease, make another application at petal fall.

**PRECAUTIONS:**  
FRACTURE FUNGICIDE is a contact fungicide with penetration properties. BLAD is the active ingredient which degrades the fungal chitin. Alternate applications with another effective fungicide with a different mode of action.  
FRACTURE FUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.

**RESTRICTIONS:**  
- Do not make more than three foliar applications of FRACTURE FUNGICIDE per crop season.  
- Do not make more than two sequential applications of FRACTURE FUNGICIDE before alternating to a labeled fungicide with a different mode of action.  
- FRACTURE FUNGICIDE may be applied up to and including the day of harvest.

## OUTDOOR ORNAMENTALS

APPLICATION INSTRUCTIONS		
CROP	DISEASE	RATE OF FRACTURE FUNGICIDE
Rose Azalea (deciduous) Begonia (tuberous) Calendula California poppy China aster ( <i>Callistephus</i> ) Chrysanthemum Clarkia Columbine Coral bells (Heuchera) Corn flower Cosmos Dahlia Zinnia	Powdery mildew ( <i>Sphaerotheca pannosa</i> ) ( <i>Golovinomyces cichoracearum</i> ) ( <i>Podosphaera spp.</i> ) Botrytis gray mold ( <i>Botrytis cinerea</i> )	1.5-3.3 L/ha
<p><b>GENERAL:</b> Apply FRACTURE FUNGICIDE nursery stock (bedding plants and flowering plants described above). Good coverage and wetting of the foliage is necessary. Spray to run off.</p> <p>Apply in 150- 300 L/ha depending upon the stage of growth. Use higher rates of water and FRACTURE FUNGICIDE as the plants grow and develop more foliage.</p> <p>Apply FRACTURE FUNGICIDE preventatively or when disease symptoms first appear. Repeat applications in 7- to 10 day intervals depending upon crop growth and disease pressure.</p> <p><b>PRECAUTIONS:</b> FRACTURE FUNGICIDE is a contact fungicide with penetration properties. BLAD is the active ingredient which degrades the fungal chitin. Alternate applications with another effective fungicide with a different mode of action.</p> <p>FRACTURE FUNGICIDE requires two to four hours drying time on plant foliage for the active ingredient to absorb into the plant tissue before rain or irrigation occurs. If, during the next 12 hours it rains significantly, a new application will be needed during the next 4 days.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>- Do not make more than five foliar applications of FRACTURE FUNGICIDE per crop season.</li> <li>- Do not make more than two sequential applications of FRACTURE FUNGICIDE before alternating to a labeled fungicide with a different mode of action.</li> <li>- FRACTURE FUNGICIDE may be applied up to and including the day of harvest.</li> </ul>		

### PRECAUTIONS:

**KEEP OUT OF THE REACH OF CHILDREN. CAUTION:** May irritate eyes and skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet.

Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Mixers, loaders and applicators must wear a long-sleeved shirt, long pants, chemical-resistant gloves, shoes, socks, and protective eyewear when handling Problad Plus.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### FIRST AID:

**IF SWALLOWED:** Call a poison control centre 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 a poison control centre 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 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre 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 centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

### STORAGE

Keep in original container during storage. Store product in a cool, dry, well-ventilated place, and use within 12 months of the date of manufacture.

To prevent contamination store this product away from food or feed.

### CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.