

AN EFFECTIVE BLEND OF SURFACTANTS FOR USE ON ALL TYPES OF GROWING MEDIA IN NURSERIES, GREENHOUSES, INTERIOR PLANTSCAPES, SOIL PRODUCTION AND TURFGRASS.

## GENERAL INFORMATION

**Suffusion** is an effective blend of surfactants for use on all types of growing media in nurseries, greenhouses, interior plantscapes, and turfgrass.

**Suffusion** is specifically developed to:

- Improve water penetration and retention of optimum moisture levels
- Give excellent initial wetting and long term re-wetting
- Assist uniform wetting and drying of the growing media
- Improve drainage
- Easily mix under cold conditions

**Active ingredient:** **Suffusion Liquid** a 100% alkoxy-ether surfactant and the **Granules** are 22% alkoxyether surfactant.

**Packaging:** **Suffusion Liquid** is packaged in 2.5 gal. and 30 gal. drums. **Suffusion Granules** are packaged in 50-pound pails.

## RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **None**

Signal Word = **Danger**

## PRECAUTIONARY STATEMENTS

Applicators and other handlers must wear:

- Goggles or a facial splash shield
- Chemical resistant gloves such as nitrile rubber or neoprene rubber
- Coveralls or long pants
- Long sleeved shirt
- Shoes and socks

Do not expose workers or other persons to this product directly or through drift.

## HOW TO USE

**Suffusion** can be used in the following ways:

- Incorporated in the growing media
- As a drench application
- At low rates in the irrigation/fertigation system
- As a misting agent over freshly stuck cuttings
- As a continuous overhead watering application to remove sitting water on foliage
- As a drench on containers and baskets prior to shipment
- Improve water penetration and drainage, including localized dry spots.

## HOW IT WORKS

**Suffusion** works by reducing surface tension of applied water, penetrating into dry and water repellent areas, and linking together water-repellent soil and water. Peat, bark or alternative compost substrates are typically candidates for **Suffusion**.

## WARNINGS

The use of **Suffusion** in overhead watering on poinsettia bracts is not recommended. Overhead watering with **Suffusion** on poinsettias without developing bracts is allowed.

## BENEFITS TO USER

**Suffusion** user benefits include:

- Offering the plant 100% of the media to grow in
- Helping to manage water more efficiently
- Reducing labor and disease issues
- Improving distribution and uptake of nutrients and other media-incorporated materials
- Reducing stress in plants through promoting a healthy growing environment
- Improve water penetration and drainage

## Turfgrass application:

Apply **Suffusion** liquid at 2 - 4 quarts per acre per month. Due to the speed at which this unique chemistry wets out the soil, **Suffusion** must be watered in immediately after application. For best results apply 2 quarts per acre every 2 weeks.

## APPLICATION RATES/METHODS

### Suffusion Granules Incorporation into Growing Media

Production Area	Rate/Cu. Yard	Longevity requirements/Growing media conditions
Containers, field soil Long term production cycles	2 lbs.	Maximum longevity (9-12 months) Severely water repellent media
Pots, hanging baskets Medium term production cycles	1 lb.	Medium longevity (3-6 months) Moderately water repellent media
Flats, pots, trays, plugs Short term production cycles	1/2 lb.	Short term activity (2-6 weeks) Slightly water repellent media

### Suffusion Granules Growing Media in Production - Top Dress and Water In

Production Area	Rate
Containers, pots, hanging baskets and interior plantscapes	2 teaspoons per 1 gallon container 4 teaspoons per 2 gallon container 2 tablespoons per 3 gallon container 3 tablespoons per 5 gallon container

### Suffusion Liquid Incorporation into Growing Media

Production Area	Rate/Cu. Yard	Longevity requirements/Growing media conditions
Containers, field soil Long term production cycles	6 fl. oz.	Maximum longevity (9-12 months) Severely water repellent media
Pots, hanging baskets Medium term production cycles	4-5 fl. oz.	Medium longevity (3-6 months) Moderately water repellent media
Flats, pots, trays, plugs Short term production cycles	2-3 fl. oz.	Short term activity (2-6 weeks) Slightly water repellent media

### Suffusion Liquid Growing Media in Production—Drench

Production Area	Rate PPM	Longevity requirements Growing media conditions
Containers, field soil, balled and burlap stock Long term production cycles	1000-1500 13-19 fl. oz./100 gals water	Maximum longevity (6-12 months) Severely water repellent media
Pots, hanging baskets Medium term production cycles	600-1000 8-13 fl. oz./100 gals water	Medium longevity (2-6 months) Moderately water repellent media
Flats, pots, trays Short term production cycles	300-500 4-6 fl. oz./100 gals water	Short term activity (2-6 weeks) Slightly water repellent media

### Suffusion Liquid Injector Rates

Production Area	Rate PPM	Injector Setting		
		1:100	1:200	1:300
Daily feeding	5 ppm - 0.067 fl. oz./100 gal 5 ppm - 2.0 mL/100 gal	0.067 oz* 2.0 mL*	0.134 oz* 4.0 mL*	0.20 oz* 6.0 mL*
Weekly feeding	50 ppm - 0.67 fl. oz./100 gal 50 ppm - 20 mL/100 gal	0.67 oz* 20 mL*	1.34 oz* 40 mL*	2.0 oz* 60 mL*

\*rate per gallon stock solution

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