

A WETTING, PENETRATING, AND RE-WETTING AGENT FOR HORTICULTURAL GROWING MEDIA AVAILABLE IN LIQUID, GRANULAR, OR TABLET FORM FOR PORTABLE APPLICATION.

Product Information Bulletin

710

GENERAL INFORMATION

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

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

The patented **Suffusion Tablets** and applicator provide a portable, easy-to-use method of applying **Suffusion**.

Suffusion Tablets and portable hose-end applicator were specifically developed to:

- Provide a portable means of applying **Suffusion** where no injector or application equipment is available
- Assist in maintaining plant quality in retail and shipping situations

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

Packaging: **Suffusion Liquid** is packaged in 2.5 gal. and 30 gal. drums. **Suffusion Granules** are packaged in 50-pound pails. **Suffusion Tablets** are packaged in boxes containing six (6) 250 gram tablets.

SIGNAL WORD

Signal Word = **CAUTION**

PRECAUTIONARY STATEMENTS

Applicators and other handlers must wear:

- Goggles or a facial-splash shield
- Chemical resistant gloves
- Coveralls or long pants
- Long sleeve 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

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**.

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



APPLICATION RATES/METHODS

Suffusion Liquid Incorporation into Growing Medium

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 Granules Incorporation into Growing Medium

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 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
Pots, hanging baskets Medium term production cycles	600-1000 8-13 fl. oz./100 gals water	Medium longevity (2-6 months) Moderately water repellent
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

Suffusion Liquid Injector Rates

Production Area	Rate PPM	Longevity	Injector Setting		
			1:100	1:200	1:300
Containers, field soil, balled and burlap stock. Long-term production cycles	1000-1500 13.34-20 fl. oz./100 gals water	Maximum longevity (6-12 months)	13.34-20 oz*	26.7-40 oz*	40.0-60 oz*
Pots, hanging baskets Medium term production cycles	600-1000 8-13.34 fl. oz./100 gals water	Medium longevity (2-6 months)	8.0-13.34 oz*	16.0-26.7 oz*	24.0-40.0 oz*
Flats, pots, trays Short-term production cycles	300-500 4-6.67 fl. oz./100 gals water	Short-term activity (2-6 weeks)	4.0-6.67 oz*	8.0-13.34 oz*	12.0-20.0 oz*

*rate per gallon stock solution

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

Suffusion Liquid Additional Usage Areas

Growing Media in Production Prior to Shipment

Production Schedule	Rate PPM	
Prior to Shipment	500-1000	Drench containers, hanging baskets and trays prior to shipment
Interior Plantscapes	500-1000	Drench containers, hanging baskets and planters
Misting Cuttings	150	Spray freshly stuck cuttings with a very fine mist to the point of run off
Dying Cut Flowers	150	Incorporate Suffusion in the dye solution
Continuous Overhead Watering Young Plants Established Plants	10-20 20-50	For removal of sitting water on foliage

SUFFUSION TABLETS & APPLICATOR

Suffusion Tablets are designed to be used with the patented, portable hose-end applicator which delivers water with **Suffusion** to plant materials, both indoors and outdoors.

The tablets and hose-end applicator can be used in areas where no injectors are available and portability is important. All that is needed to apply **Suffusion** with the hose-end unit is a water source.

The tablets are placed within the vessel of the hose-end applicator and as water flows over the tablet, it slowly dissolves. Plants receive a dose of **Suffusion** with watering.

Suffusion Tablets are specifically formulated for the immediate wetting of dry and water-repellent soil, and to aid in re-wetting.

An application of **Suffusion** through this system results in roughly 80 ppm delivered to the plant material.

Each tablet lasts roughly 1 hour 30 minutes, depending on water pressure and temperature. Each tablet produces roughly 700-1000 gal. of water under normal watering conditions.

The hose-end unit comes with a nozzle that delivers a soft stream of water over plant material. Users may elect to use the hose-end applicator on an in-line basis and deliver water through standard watering nozzles such as a Damm RedHead™ Water Breaker.

Some examples of potential **Suffusion Tablet** uses:

- Shipping areas where no injector is available
- Merchandisers at Big Box retailers
- Retail garden centers
- Remote nursery locations

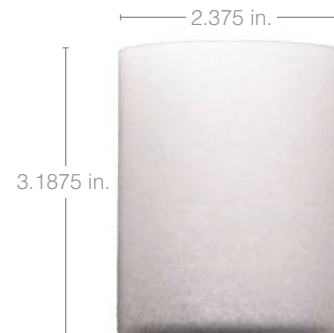


Applicator in use.

Suffusion Applicator



Suffusion Tablet



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*Guaranteed by AmegA Sciences, Daventry, England.
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