



EthylBloc™ Technology
Truck Treatment



EthylBloc™ Sachet

Ethylene Review

It is estimated that 30% flower shrinkage is caused by ethylene. Ethylene is a gaseous plant hormone that profoundly influences the growth and development of plants. Some harmful effects of ethylene exposure are listed in the tables below (not intended to be a complete listing). Any individual plant produces ethylene, but is also susceptible to ethylene produced by many other sources (including produce, propane heaters, gas-powered forklifts, cigarette smoke and other flowers).

A 1999 ethylene survey performed by the University of Guelph revealed average ethylene levels for growers (115 ppb), wholesalers (3.88 ppm) and retailers (914 ppb). Ethylene levels above 100 ppb can do damage to flowers over time periods greater than 24 hours. Levels of about 250 ppb can do damage to flowers in as little as 12 hours. Low temperatures (34 - 38° F) can slow this damaging process.

It is important to understand the small amount that 100ppb represents. If you add 100 drops of food coloring to 26,400 gallons of water, the concentration of the food coloring is 100 ppb. EthylBloc™ Technology is an ethylene action inhibitor that prevents the following ethylene damage to your crops. Contact Floralife, Inc. for further information concerning EthylBloc™ Technology.

<i>Some Cut Flower Crops and Ethylene Symptoms</i>	Crop	Symptoms of Ethylene Damage
	Alstroemeria	Leaf-yellowing, petal transparency
	Baby's Breath (Gypsophila)	Excessive brown flowers
	Carnation	In-rolling of petals, 'sleepiness'
	Delphinium and Larkspur	Bloom abscission/shattering
	Freesia	Bloom senescence (wilting)
	Lily	Leaf-yellowing, petal transparency
	Orchid	Bloom abscission, transparency
	Rose	Bent neck, improper opening
	Snapdragon	Bloom abscission, bloom transparency
	Waxflower	Bloom abscission

<i>Some Potted Plant Crops and Ethylene Symptoms</i>	Crop	Symptoms of Ethylene Damage
	Reiger Begonia	Bloom abscission
	Cyclamen	Flower wilting
	Dianthus	Bloom senescence
	Ficus	Leaf-yellowing, leaf abscission
	Fuchsia	Bloom abscission
	Geranium	Petal abscission, leaf-yellowing
	Impatiens	Bloom abscission
	Kalanchoe	Flower wilting
	Lily	Leaf-yellowing, petal transparency
	Miniature Rose	Leaf and bloom abscission
	New Guinea Impatiens	Bloom abscission
	Orchid	Bloom fall
	Pansy	Flower wilting
	Persian Violet (Exacum)	Flower wilting
	Petunia	Flower wilting
Poinsettia	Epinasty, leaf abscission	
Zygocactus	Bloom abscission	