



Cleveland's Tree Doctors - Preserving the "FOREST" in the Forest City

PURESPRAY™ HORTICULTURAL OIL: ENVIRONMENTALLY SOUND TREE CARE

Don't Let Damaging Insects Awaken on Your Trees & Shrubs



Horticultural oils were developed at the turn of the century to protect orchards from devastating insect attacks. They have been used for many years on trees and shrubs. **When applied before buds open to control overwintering insects, these oils are referred to as "dormant oils."** Today, oils are so light and pure that they can be applied into the growing season and during hot weather without damage to foliage.

Kinder & Gentler Insect Control

Horticultural oils are similar to highly diluted petroleum jelly. The material we use, *Purespray*, is listed by the Organic Materials Review Institute (OMRI) as meeting the U.S. National Organic Program standards. OMRI supports organic integrity by an independent review of products intended for use in certified organic production, handling, and processing. Acceptable products are *OMRI Listed® For Organic Use* and appear on the OMRI Products List©.



Purespray controls insects in several ways, most importantly by blocking the air holes through which the insects breathe, causing them to suffocate. Pests are literally smothered before they awaken from their winter nap. Oils can also interfere with insect metabolism or disrupt insect feeding. The development of insect resistance to oils is rare, since the mode of action is mechanical rather than chemical. And, because **its action is mechanical, non-chemical**, *Purespray* causes **minimal environmental risk**. It is **not toxic to mammals, birds, and reptiles** (It is toxic to fish.)



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Pine Needle Scale

Effective Insect Pest Control

We use *Purespray* on shrubs, ornamentals and trees to kill scale, aphids, mites, and other soft-bodied insects. Horticultural oils may also control powdery mildew and prevent the spread of plant viruses transmitted by aphids.

In the past, horticultural oils were heavier and used only when plants were not in their growing season, so they were called dormant oils. The old oils effectively managed pests that overwintered on woody plants, but they were too heavy to be sprayed on plants with foliage. The term dormant oils is still used, though now it generally refers to the application time of the oils. New, lighter formulations allow you to use oils during the growing season. These products, sometimes called summer, superior, or supreme oils, can control spider mites and whiteflies.



Spruce Spider Mite

We do not apply *Purespray* to some plants, including sugar & Japanese maples as well as Alberta and blue spruce, which are sensitive to oils.



Powdery Mildew

Nature's Way

Even in their natural forest or woods setting, trees and shrubs suffer stress from adverse environmental conditions. These pressures are beneficial, selecting the healthiest plants for survival. Trees mature, lose vigor, eventually die, and are recycled back into the forest through the decay process.

Our Role In Nature's Balance

A balance of nature is missing in our landscapes. Increased stress comes from poor & compacted soils, restricted growing areas, poor drainage, competition from grass for water & nutrients, root and trunk injuries, road salt, pollution, etc. Stress reduces tree vigor and pre-disposes them to insect and disease problems. ***For these reasons, we must provide the necessary care for our landscapes to maintain vigor and to reduce stress factors.***

Let Forest City Tree Protection protect your valuable landscape plants with an application of *Purespray* horticultural oil.

For further information contact:

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