

Biocar® Delivery System

(US Patent # 5,888,500)

Biosorb, Inc.'s new microsphere technology, **Biocar®** (US Patent # 5,888,500), is made from cereal grain material and brings new capabilities to growers and to applicators in the field of specialty crops, ornamental horticulture, landscape, turf, vegetation control, aquatic applications and general agriculture. This new technology maximizes treatments, spray applications, and environmental safety.

One of the **Biocar®** biological carriers, **Biocar® 405**, is a natural product that can absorb large amounts of liquid or dry ingredients, up to 60 percent by weight, and still remain a dry and free-flowing powder. Because of its unique properties, **Biocar® 405** will play an increasing role in preparation of formulations of pesticides and of biopesticides for granules, wettable powders, dry flowables, finished dusts, suspension concentrates, tablets and other forms. **Biocar®** allows natural biocontrol agents, as well as, chemical control agents, to be absorbed into a natural matrix and provides for much safer and uniform application of the pesticide.

Biocar® 405 granules can be impregnated with herbicides, biopesticides, insecticides, fungicides, soil fumigants, nutritional enhancers, additives and other crop protection agents for many applications. For example, they are useful in early season soil applications to control soil insects and for pre-emergent herbicidal control, as well as, for post-emergent treatments. **Biocar® 405** granules can penetrate canopies remaining from crop residuals for use in no till ground cover treatments.

In pesticidal formulations, the liquid agent is usually added to the granules by

distributive mixing by means of spray nozzles or perforated pipe while the granules are being tumbled in a mixer. The superior absorption capacity of **Biocar® 405**, up to 60 percent by weight, allows for higher loading concentration of active ingredients. **Biocar® 405** is exempt from the requirement of tolerance under 40 CFR Section 180.1001 (c) and (e).

Biocar® Granular Carrier Typical Physical Properties

Color	Tan
% Free Moisture	6-10%
Protein	20%
Fiber	13%
pH	7.0
Angle of Repose	30.0
% Liquid Holding Capacity	60
Bulk Density (lb/ft ³)	20-35
Granular Size (mesh)	<40

Biocar® 405 in Tablet Form



Biocar® 405 in Wettable Powder Form

