

SUPERZYME™

Bacillus Subtilus
& Pseudomonas Putida



GUARANTEED ANALYSIS

Bacillus subtilus
Pseudomonas putida

The total spore counts is 2 x 10⁹ active spores per gram of product.

GENERAL INFORMATION

Superzyme contains beneficial bacteria that enhance soil life. Soil is a living entity occupied by micro flora and fauna. Billions of organisms live in the soil and form dynamic relationships, some antagonistic and other synergistic. A healthy soil is one where all the organisms the plant requires are present and functioning. The use of **Superzyme** re-introduces these beneficial organisms that plants require to function normally.

Plants grow in optimal conditions when the correct ratio of fungi to bacteria is present, and ratio of predator to prey is present. Using beneficial inoculums such as **Superzyme** will enable the plant to function at optimal conditions.

ADVANTAGES & BENEFITS

Using **Superzyme** has shown many rewards;-

1. Better seed germination,
2. Increased plant survival rates,
3. Abundant root proliferation,
4. Improved growth and vigour
5. Healthier plants,
6. Increased fruit set and accordingly, higher yields of higher quality.

A product such as **Superzyme** may enhance flowering either by shortening the days to flowering or by increasing the number of flowers. This is illustrated on the back page of this brochure whereby strawberry plants were treated with **Superzyme** and in a period of days, the survival rate of these plants was increased, as were the num-

ber of flowers produced by these plants. The untreated block looked vastly different.

Superzyme can improve soil structure. The organisms in this product produce humic compounds and help form aggregates in the soil to improve soil porosity.

Superzyme can be applied as a foliar spray, seed soak, transplant dip, side dress or through irrigation systems. When properly applied to the soil, **Superzyme** will multiply and produce factors which may stimulate plant growth.

Superzyme can be used on:- wine grapes, table grapes, deciduous fruits, nuts, citrus, raspberries, cotton, vegetables, asparagus, corn, carrots, onions, garlic, capsicums, potatoes, tomatoes, melons, legumes, sorghum, turf grass, ornamental, horticultural, and nursery plants.

COMPATIBILITY

Superzyme may be rendered ineffective in the presence of high rates of Copper. This biological product may be killed if combined with Bacteriacides, soil fumigants, aqueous ammonia, phosphoric acid, chlorine, or sulphuric acid. If applied with large doses of fertilisers, there is a possibility of salt toxicity to the beneficial organisms.

PLANT & ENVIRONMENTAL SAFETY

Superzyme is totally harmless to plants even when recommended rates are exceeded.

Superzyme is totally harmless to both humans and wildlife and is environmentally friendly.



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9/9A Foundry Road, Seven Hills N.S.W. Australia 2147

Phone: +61(0)2 9838 9111 Fax: 61+(0)2 9838 9110

E-mail: inquiries@zadco.com.au Web: <http://www.zadco.com.au>



APPLICATION GUIDELINES

CROP	TIME OF APPLICATION		RATE OF APPLICATION
	1 st application	Further Applications	
APPLES & PEARS	At planting	Annually when root flush occurs	1 kg/ha 1 kg/ha 1kg/ha
AVOCADO & NUT TREES	At planting	Annually when root flush occurs	1 kg/ha 1 kg/ha
BRASSICAS and LETTUCE	At planting	As needed	1 kg/ha 1 kg/ha
GRAPES (TABLE, WINE, & DRIED FRUIT)	At planting	Annually when root flush occurs	1 kg/ha 1 kg/ha 1kg/ha
KIWI GOLD(16A) & HAYWARD	At planting	Annually when root flush occurs	1 kg/ha 1 kg/ha 1kg/ha
POTATOES, ONIONS & CARROTS	At planting		1 kg/ha
STONE FRUIT & CHERRIES	At planting	Annually when root flush occurs	1 kg/ha 1 kg/ha 1kg/ha
STRAWBERRIES & ALL BERRIES	At planting	As needed	1 kg/ha 1 kg/ha
TOMATO and CAPSICUM Field grown	At planting	As needed	1 kg/ha 1 kg/ha

For information on application rates and timing for crops not listed on this brochure, please contact your local distributor or visit the Zadco website at www.zadco.com.au



For all tree crops, it is advisable that applications are done annually in the spring when the root system begins to grow. Row crops such as vegetables require applications at planting for optimum benefits.

Importance of Superzyme and Its Contribution to Agriculture

Soil organisms contribute a wide range of essential services to the sustainable function of all ecosystems, by acting as the primary driving agents of nutrient cycling, regulating the dynamics of soil organic matter, soil carbon sequestration; modifying soil physical structure and water regimes, enhancing the amount and efficiency of nutrient acquisition by plants / trees and enhancing plant health. These services are not only essential to the functioning of commercial plant and tree production but constitute an important resource for the sustainable management of agricultural systems.



A simple illustration of the benefits of **Superzyme** can be seen to the left whereby the picture on the left is treated with Superzyme and the picture on the right is not treated. At such a young stage, Superzyme has been able to deliver benefits through better plant establishment and earlier flowering which equates into increased production.

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PO Box 72, Waiheke Island, New Zealand

Ph: +64(0)93729155 Fax: +64(0)93729150

E-mail: rsf@rd2.co.nz

Web: <http://www.rd2.co.nz>

MANUFACTURED BY

JH Biotech, Inc.

4591 Olivas PK. Dr. Ventura

California 93006 USA

Web: <http://www.jhbiotech.com>