

TECHNOTE

SPOREKILL – FOR BROAD SPECTRUM SANITATION AND FUNGAL AND BACTERIA CONTROL

Plant and equipment hygiene is critical in ensuring good farm safety practices and pathogen control.

For easy general disinfection in cold rooms, packing sheds, seed trays, hard surfaces as well as plant sanitation, consider using Sporekill®.

Sporekill (120g/L didecyldimethyl ammonium chloride) is an agricultural disinfectant designed for broad spectrum sanitation and water treatment solution as part of a normal spray and/or sanitation program.

It controls a wide range of bacteria, fungi as well as viruses, mycoplasma and algae on contact.

KEY FEATURES

- Sporekill provides broad spectrum sanitation, disinfection and post harvest disease control in a wide range of situations
- Controls a wide range of bacteria, fungi, viruses, mycoplasma and algae
- Non-toxic and biodegradable
- Not volatile or corrosive on equipment or surfaces
- Currently no resistance detected

HOW SPOREKILL WORKS

Sporekill is part of a chemistry known as Quarternary Ammonium Compound (QAC). These are used in a wide variety of household and agricultural situations including cosmetics, shampoo, food processing and dairy pasteurising plants.

QACs work by disrupting the proteins of the bacterial, virus or fungal cell, affecting the metabolic reactions and allowing fluid to leak from the cell, causing death.

Sporekill is non-toxic, non-phytotoxic and non-corrosive at recommended rates. It is also biodegradable with no known resistance currently.

APPLICATION AND RATES

Sporekill can be used in a wide range of situations (see Table 2). Its performance is not affected on water pH or hardness and stays in active in solution. Sporekill can also be mixed with fertigated water and other products as part of a wider program.



TABLE 1: BROAD SPECTRUM SANITATION

Plant pathogenic bacteria	<i>Acidovorax, Agrobacterium, Clavibacter, Erwinia, Pseudomonas, Ralstonia, Ratoon stunting disease, Streptomyces, Xanthomonas, Xylophilus</i>
Other pathogenic bacteria	<i>Acinetobacter, Bacillus, Bordetella, Clostridium, Corynebacterium, E. coli, Haemophilus, Klebsiella, Lactobacillus, Micrococcus, Ornithobacterium, Pasteurella, Proteus, Pseudomonas, Salmonella, Shigella, Staphylococcus, Streptococcus, Vibrio</i>
Plant pathogenic fungi	<i>Alternaria, Aspergillus, Botrytis, Botryosphaeria, Cercospora, Colletotrichum, Cylandrocarpon, Fusarium, Geotrichum, Mildews, Monilinia, Penicillium, Phaemoniella, Phaeoacremonium, Phoma, Phomopsis, Phytophthora, Pythium, Rhizoctonia, Sclerotinia, Sclerotium, Septoria, Stemphylium, Ustilago scitaminea, (Sugarcane smut), Verticillium</i>
Other pathogenic fungi	<i>Aspergillus, Candida, Saccharomyces, Trichophyton</i>
Various viruses, mycoplasma and algae	

Source: Nufarm, 2014

TABLE 2: WHERE TO USE SPOREKILL

WHERE	RATES	COMMENTS
Growing equipment, footbaths and hands	100mL/10L water (1% solution)	First remove all organic matter from surface and wet thoroughly. Keep equipment wet for at least 10 minutes for best results.
Cold rooms, packing sheds, tunnels, seed trays and hard surfaces	100mL/100L water (0.1% solution)	Remove all organic material before application. Keep wet for at least 10 minutes for best results.
Irrigation water Non food crops only	5-20mL/1000L water for continuous dosing	Dirt, algae or organic matter may clog drippers during the first few dosings, so rinse irrigation pipes frequently. May be used in fertigated water. Do not apply directly via fertiliser tank.

NOTE: Always read the label before use. Source: Nufarm, 2014

For more information on Sporekill, contact your local Nufarm Area Sales Manager

nufarm.com.au/contacts

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