



THE TOXICOLOGY GROUP, LLC

A Wholly Owned Company of NSF International

June 6, 2005

Mr. Alex Wijsenbeek
H.B.A. GmbH
45 La Vater Strasser
CH8002 Zurich, Switzerland

RE: Profile Of Bioscreen C000C

Dear Mr. Wijsenbeek:

The Toxicology Group (TTG) has been working with H.B.A. for approximately 3 years to investigate Bioscreen C000C and continues to assist in developing efficacy, stability and other necessary data to support product claims in particular end use areas to develop specific distribution channels. TTG originally evaluated the product attributes particularly as they pertained to the requirements of the "Minimum Risk Pesticide" guidelines, as specified in US-Environmental Protection Agency Federal Insecticide, Rodenticide, and Fungicide Act, Section 25 (b). As importantly, The Toxicology Group also determined that all substances incorporated in the mixture were determined to be Generally Regarded as Safe (G.R.A.S.) for addition to foods by the US – Food and Drug Administration (as specified in 21 CFR, 184.1257).

Based on a review of the ingredient profiles and these two regulatory affirmations, our scientific team of experts is confident that this natural proprietary mixture of substances presented a viable alternative to the many chemically based antimicrobials currently on the market today. Our multidisciplinary team of scientists including, toxicologists, microbiologists, chemists, and engineers continue to generate and review efficacy and stability data on Bioscreen C000C. This data includes product efficacy against various bacteria, fungi, and virus. The product is tested both in its neat form and as a tincture. It has proven efficacious against a broad range of organisms in both forms.

The Toxicology Group, LLC
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789 Dixboro Road • Ann Arbor • MI 48105
Phone (800) 673-6275
Fax (769) 827-7760
www.toxgroup.org



Based on the testing performed to date, it is our opinion that the Bioscreen C000C is a viable antimicrobial alternative for many situations where chemical sanitizers are currently employed. It offers the industry a unique **natural** product that can be classified as a:

- Minimum risk pesticide (per US-EPA)

Contains:

- All Generally Recognized as Safe ingredients (as specified in 21CFR, 184.1257)

Has:

- Antimicrobial capabilities

And is

- Biodegradable.

For reference included here is a chart, which compares the key performance advantages of Bioscreen C000C to two other primary disinfectants.

Table 1 – Key performance and advantages of Bioscreen C000C

Agent	Sodium & Calcium Hypochlorite	Quaternary Ammonium Compounds	Bioscreen C000C
Performance	Moderate	Moderate to high	Moderate
Contact Time	Minutes	Minutes	Minutes to Hours
pH	Alkaline	Acidic to neutral	Acidic
Corrosiveness	Corrosive to iron and aluminum	Corrosive to iron, copper, and brass	Noncorrosive
Source	Chemical	Chemical	Natural
Antimicrobial Performance	Broadspectrum (Bacterial, Viral, Fungal)	Broadspectrum (Bacterial, Viral, Fungal)	Broadspectrum (Bacterial, Viral, Fungal)
Environmental Attributes			Biodegradable
Regulatory Statues	Registered Pesticide	Registered Pesticide	Generally Recognized as Safe, Minimum Risk Pesticide



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The Toxicology Group, LLC has been pleased to be a partner with HBA in their quest to provide an alternative antimicrobial solution and look forward to continuing to work with them on developing the technology to its fullest.

Sincerely,

A handwritten signature in cursive script, appearing to read "Maryann Sanders".

Maryann Sanders
Senior Scientist

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