



CGSA AAAAA aah!

FON

force of nature

Update



Environmental and Safety Facts Regarding the Fungicide Quintozene

June 24th, 2010

Health Canada Re-evaluation Decision RVD2010-06 Quintozene

Selected and adapted excerpts

Re-Evaluation Decision

After a re-evaluation of the fungicide quintozene, Pest Management Regulatory Agency of Health Canada (PMRA) announced that ...

... quintozene is being phased-out for turf and ornamental uses due to the health and / or environmental concerns.

Despite environmental and safety facts, Canadian Golf Superintendents Association (CGSA) leaders and staff decided to SAVE QUINTOZENE.

In order to convince Health Canada that a quintozene phase-out was UNNECESSARY, CGSA and other trade associations orchestrated a letter-writing campaign. Members were encouraged to blindly write a letter in support of a MISLEADING CGSA submission of March 23rd, 2009.

Observers claim that the campaign to SAVE QUINTOZENE was deliberately MISGUIDED, MISLEADING, and INCOMPETENT.

Consequently, CGSA SEVERELY DAMAGED ITS CREDIBILITY IN PUBLIC POLICY.

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Canadian Golf Superintendents Association and other trade associations SQUANDERED the resources of the Golf Industry, rather than honour their commitments to excellent golf course management by providing ACCURATE and COMPETENT information about alternatives to their memberships.

Environmental Considerations Regarding the Fungicide Quintozene

According to Pest Management Regulatory Agency of Health Canada —

Quintozene is PERSISTENT, and has the potential to BIO-ACCUMULATE in the environment.

Quintozene has been detected in remote regions of Canada, including the Arctic. Therefore, quintozene has sufficient persistence to be subjected to long-range transport.

With the additional risk reduction measures required on quintozene labels, the remaining uses (cole crops and ornamental bulb dip) will not pose unacceptable risks to the environment.

Toxic Substance Management Policy Considerations

Additional information provided by the registrant confirmed that quintozene is associated with Track 1 contaminants of concern as defined in the federal Toxic Substance Management Policy.

Namely, hexachlorobenzene, pentachlorobenzene, dioxins and furans.

THE PHASE-OUT OF ALL TURF AND ORNAMENTAL USES, except bulb dip, will result in a significant decrease in the release of these contaminants into the environment, consistent with the Toxic Substance Management Policy goal of virtual elimination.

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Use Pattern Changes

The phase-out of all turf uses proposed by Pest Management Regulatory Agency of Health Canada is due to HUMAN HEALTH AND ENVIRONMENTAL CONCERNS.

Following the publication of the Proposed Re-Evaluation Decision, the Canadian registrant PROPOSED to limit quintozone use on turf to golf course greens, tees, and fairways only.

Quintozone is considered to have persistent, bio-accumulative and toxic characteristics with evidence of long range transport and the application rate used on turf is high.

Further, additional information provided by the registrant confirmed that quintozone is associated with Track 1 contaminants of concern; namely, HEXACHLOROBENZENE, PENTACHLOROBENZENE, DIOXINS, and FURANS, as defined in the federal Toxic Substance Management Policy.

Consistent with the Toxic Substance Management Policy goal to prevent or minimize releases of Track 1 contaminants into the environment with the ultimate goal of virtual elimination, phase-out of uses resulting in the largest releases of these contaminants into the environment is required.

These uses include all turf uses.

A number of countries in Organisation for Economic Co-operation and Development (OECD), including the European Union, have also PROHIBITED the use of quintozone.

Quintozone Vapour Pressure

Pest Management Regulatory Agency of Health Canada indicates in the Proposed Re-Evaluation Decision that quintozone is HIGHLY VOLATILE.

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Quintozene Photo-Transformation

Quintozene absorbs light in the solar ultra-violet (UV) range, is very reactive in water photolytically, and its photo-products are consistent with reactions with species that occur in the atmosphere.

Long Range Transport

Quintozene has INTERMEDIATE TO HIGH VOLATILITY (vapour pressure of 12.7 mPa at 25°C) and, the estimated photo-oxidation half-life for quintozene in the vapour phase is 2,200 days, thus, indicating a LONG-RANGE TRANSPORT POTENTIAL.

Further a publication by Daly *et al* (2007), showing detection of quintozene residues in mountains of Western Canada, as well as another by Hoferkamp *et al* (2009 in press) reporting detections in the Arctic, are indicative of the long-range transport potential of quintozene.

Impurities of Health and Environmental Concern

The Proposed Re-Evaluation Decision indicates the presence of several impurities of concern in quintozene and further states that additional information will be requested.

To review the current levels of Toxic Substance Management Policy Track 1 contaminants such as hexachlorobenzene (HCB), dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs), as well as other contaminants of concern.

Information provided by the registrant indicates that the level of dioxin-like substances in the Canadian technical grade active ingredient remains practically unchanged since the last analysis was conducted.

The 2009-2010 leaders of Canadian Golf Superintendents Association who supported Quintozene, Prohibition, IPM, and more

Future generations will ask the question — Why ?



AMIRAULT, Debbie



KELLGREN, Kyle



PILON, Christian



BARAKETT, Jarrod



KUBASH, Tim



WATKINS, Kerry



BURROWS, Bob



MILLS, John



COUSINEAU, Ken



HOLDEN, Greg



MOIR, Patrick



NORAHG

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The information presented in this Report is for preliminary planning only. Before making a final decision, the turf manager is expected to obtain trusted expert advice from extension specialists, local distributors and/or agronomists. All decisions must take into account the prevailing growing conditions, the time of year, and the established management practices.

All products mentioned in this Report should be used in accordance with the manufacturer's directions, and according to provincial, state, or federal law. For the official advantages, benefits, features, precautions, and restrictions concerning any product, the turf manager must rely only on the information furnished by the manufacturer. The mention of trade names does not constitute a guarantee or a warranty.

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Force Of Nature is the brainchild of William H. Gathercole and his entourage. Mr. Gathercole is a principal founder of the Modern Professional Lawn Care Industry in both Ontario and Quebec. He holds a degree in Horticulture from the University of Guelph, and another pure and applied science degree from McGill University. He has worked in virtually all aspects of the Green Space Industry, including golf, professional lawn care, and distribution. Mr. Gathercole has supervised, consulted, programmed, and/or overseen the successful execution of hundreds of thousands of management operations in the urban landscape. He has trained, instructed, and advised thousands of turf managers and technicians. Mr. Gathercole has also been an agricultural agronomist. Mr. Gathercole is personally credited for crafting the Exception Status that has allowed the Golf Industry to avoid being subjected to the prohibition of pest control products. He is also the creator of the signs that are now used for posting after application. Mr. Gathercole is now retired, although his name continues to appear as the founder of Force Of Nature.

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