

### **Overview from an Independent Perspective**

#### Virtually All Green Alternatives Are Bogus

Despite claims to the contrary, overall, there are NO viable, efficacious, or economical Green Alternatives to replace conventional pest control products.

Virtually all Green Alternatives are BOGUS, displaying negative characteristics such as the following -

• Green Alternatives may be ALMOST TOTALLY IN-EFFECTIVE except under very specific circumstances.

 Green Alternatives may be PROHIBITED in some jurisdictions.

• Green Alternatives may be questionably HIGHER IN TOXICITY.

• Green Alternatives may be STUNNINGLY MORE EXPENSIVE to use when com-pared to conventional pest control products.

• Green Alternatives may be SUPPLIED by the same Environmental-Terror-Organizations that sought the prohibition of conventional pest control products.

• Green Alternatives may have NEGATIVE SIDE-EFFECTS like phyto-toxicity ( an effect that adversely affects plant growth ) or metal corrosion or rodent-attractant.

 Green Alternatives may NOT be registered as pest control products, and therefore, are UNREGULATED.

• Green Alternatives may NOT fully control pests, and may only provide PARTIAL SUPPRESSION.

 Green Alternatives may NOT have a full range of safety information such as HUMAN TOXICITY and ENVIRONMENTAL IMPACT, which is necessary for the registration of conventional pest control products.

 Green Alternatives may require EXTREMELY– HIGH–INPUTS OF ACTIVE INGREDIENT since they will otherwise be less effective — the rates and the frequency of application may be exorbitantly high.

• Green Alternatives may require MORE PERSONAL PROTECTION for the user.

• Green Alternatives may NOT BE SAFER, NOT BETTER, and NOT MORE EFFECTIVE.

Overall, Green Alternatives Are a Dismal Failure

Overall, Green Alternatives are a DISMAL FAILURE since they merely SUPPRESS or INHIBIT pests of turf, and require an excessive number of repeat applications, often with EXTREMELY-HIGH-INPUTS OF ACTIVE INGREDIENT.

On the other hand, conventional pest control products FULLY and EFFECTIVELY CONTROL pests, without the need for excessively repeating applications, or without using exorbitant quantities of active ingredient.

It is difficult to « fit » a Green Alternatives, such as Organo–Sol, within the CORNERSTONES FOR EFFEC-TIVE LAWN MAINTENANCE AND ADEQUATE BROAD– LEAVED WEED CONTROL.

#### Description of Organo-Sol

Summary of Characteristics of Organo-Sol -

- Applied as liquid suspension
- Bio-pesticide
- Broad-leaved weed « suppression »
- Cosmeti
- Herbicide
- Non-Selective when used as a spot application
- Not an effective alternative to 2,4–D
- Post-emergent
- Selective when used as a broadcast application
- Weed suppression and not control
- Will only « suppress » certain weeds

Organo–Sol is a microbial BIO–PESTICIDE made of dairy products fermented by lactic acid bacteria.

Organo-Sol is a turf herbicide for BROAD-LEAVED POST-EMERGENT weed « *suppression* » ( and not control ) in turfgrass.

It is packaged as a SUSPENSION for LIQUID applications on turf.

Organo–Sol will NOT provide the same ERADICATIVE EFFECT of conventional POST–EMERGENT herbicides like 2,4–D and Killex, and it is certainly NOT an effective alternative.

ORGANO–SOL WILL NOT WORK AS WELL as 2,4–D and Killex.

A Look at a so-called Green Alternative to conventional weed control products

### Active Ingredients in Organo-Sol

According to the label ....

Organo-Sol is a lacto-fermented liquid herbicide suspension.

It contains a mix of Lactic Acid bacteria used against various weeds in established lawns.

Lactic Acid, 17.69 grams per litre

Citric Acid, 19.71 grams per litre

Present as fermentation products of -

Lactobacillus rhamnosus strain LPT-21,

Lactobacillus casei strain LPT-111,

Lactococcus lactis ssp. cremoris strain M11/CSL,

Lactococcus lactis ssp. lactis strain LL64/CSL, and

*Lactococcus lactis* ssp. *lactis* strain LL102/CSL

Lactic Acid

Lactic Acid is naturally PRESENT IN ANIMALS AND HUMANS, in muscle cells when the oxygen supply is inadequate to support energy production, and is normally excreted in human urine.

In ruminants, Lactic Acid is a normal intermediate of feed digestion.

Higher plants also contain Lactic Acid.

Lactic Acid is naturally PRESENT IN MANY EDIBLE FOOD COMMODITIES such as apples and other fruits, fruit juices, tomato juice, soft drinks, beer and wine, bakery goods, cheeses, candy, and salad dressings.

A Look at a so-called Green Alternative to conventional weed control products

The current use of Lactic Acid in pest control products will NOT adversely affect public health and the environment

Lactic Acid is also formed by natural fermentation in sour dairy products, fermented fruits and vegetables, and sausages.

Lactic Acid has MANY CHEMICAL APPLICATIONS IN INDUSTRY, such as salts, plasticizers, adhesives, in pharmaceuticals, as a mordant in dyeing wool, in dehairing/plumping/and decalcifying hides, and as a solvent.

It is reasonable to expect that these industrial uses may result in the release of Lactic Acid into the environment through various waste streams.

In PEST CONTROL PRODUCTS specifically, Lactic Acid is classified on the United States Environmental Protection Agency's (U.S. EPA) List of Inert Ingredients as a List 4B, an INERT INGREDIENT for which there is sufficient information to conclude that its current use pattern in pest control products WILL NOT AD-VERSELY AFFECT PUBLIC HEALTH AND THE ENVIRONMENT.

### Citric Acid

Citric Acid is a weak organic acid that is FOUND NATURALLY in soil and water, natural waters, and sewage treatment systems.

Citric Acid plays a key role in the CITRIC ACID CYCLE, the metabolic energy system that is active in all animals and higher plants.

Citric Acid is also naturally present at high levels in many EDIBLE FOOD commodities, such as in citrus fruit ( particularly lemons and limes ), raspberries, tomatoes, and potatoes.

A Look at a so-called Green Alternative to conventional weed control products

#### The risk to terrestrial and aquatic non-target organisms from Lactic Acid bacteria is negligible

Citric Acid is also WIDELY USED IN THE FOOD INDUSTRY, as an acidulant in beverages (e.g., fruit juices), in confectionary, in pharmaceutical syrups, and in processing cheese, as well as in the chemical manufacturing, as a foam inhibitor, as a sequestering agent mordant, as an anti-coagulant, as a buffering agent, for pH adjustments, and as a water conditioning agent for laundry detergents, shampoos, cosmetics, and chemical cleaning products.

It is reasonable to expect that these industrial uses may result in the release of Citric Acid into the environment through various waste streams.

#### Occurrence of Lactic Acid in Nature

Lactic Acid bacteria are considered WIDESPREAD IN NATURE.

Lactic Acid bacteria can be recovered from water, soil, manure, sewage, and silage as well as from a variety of plant material such as fruit, vegetables, grass, and clover.

Lactic Acid bacteria are also part of the COMMENSAL MICROFLORA OF HUMANS and animals as part of the gastrointestinal tract, oral cavity, and vagina.

Published literature indicates that although Lactic Acid bacteria can survive outside of the dairy environment, they are UNLIKELY TO THRIVE.

Furthermore, the number of Lactic Acid bacteria contained in Organo-Sol is RELATIVELY LOW.

Since the use of Organo–Sol is NOT LIKELY to result in an increase of the number of Lactic Acid bacteria in the environment, the risk to terrestrial and aquatic non–target organisms from Lactic Acid bacteria is NEGLIGIBLE.

A Look at a so-called Green Alternative to conventional weed control products

Reports do not suggest that exposure of non-target terrestrial and aquatic organisms to the levels of Lactic and Citric Acid in Organo-Sol will pose a concern with respect to toxicity

LACTIC ACID AND CITRIC ACID ARE EXPECTED TO POSE NEGLIGIBLE RISK TO TERRESTRIAL AND AQUATIC ORGANISMS UNDER THE CONDITIONS OF USE

### Environmental Risks Are NOT of Concern

Citric Acid and Lactic Acid readily undergo bio-transformation in terrestrial and aquatic environments.

Given the ubiquitous nature of Citric Acid and Lactic Acid in animals, plants, edible food commodities and industrial chemicals, the proposed uses of Organo–Sol on lawns is NOT expected to result in a considerable increase in exposure to non–target terrestrial and aquatic organisms.

Furthermore, reports in published literature of cases of adverse effects, as well as published toxicological end-points, DO NOT suggest that exposure of non-target terrestrial and aquatic organisms to the levels of Citric Acid and Lactic Acid in Organo-Sol will pose a concern with respect to toxicity.

Based on the available data, Citric Acid and Lactic Acid are expected to pose NEGLIGIBLE RISK TO TERRESTRIAL AND AQUATIC ORGANISMS under the conditions of use.

Selected and adapted excerpts from Health Canada report.

Force Of Nature presents THE WHOLE TRUTH FROM AN INDEPENDENT PERSPEC-TIVE from National Organization Responding Against Huje that seek to harm or misinform the Green Space Industry (NORAHG). It is a series of Reports destined for the Green Space Industry, the Environmental Terror Movement, Governments, and the Media, nationwide across Canada, the United States, and overseas. This Report has been developed for the education and entertainment of the reader by providing TECHNICAL INFORMATION WITH COMMENTARY. The neutrality of the Report might be disputed.

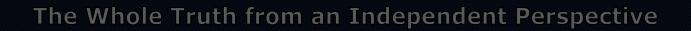
The information presented in this Report is for preliminary planning only. Before making a final decision, the turf manager is expected to obtain trusted expert advice from extension specialists, local distributors and/or agronomists. All decisions must take into account the prevailing growing conditions, 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 from Force Of Nature, although his name continues to appear as the founder.

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