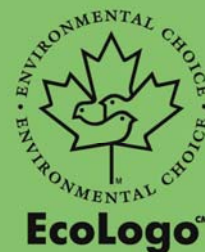


EcoLogo^{CM} Program Certification Criteria Document

CCD-114

RV and/or Marine Holding Tank Additives: Biologically-based



Introduction

The EcoLogo^{CM} Program is designed to support a continuing effort to improve and/or maintain environmental quality by reducing energy and materials consumption and by minimizing the impacts of pollution generated by the production, use and disposal of goods and service.

In order to be eligible to carry the EcoLogo^{CM}, the biologically-based RV and/or marine holding tank additive must:

- be biologically based,
- not be toxic,
- not be harmful to humans, riparian species and aquatic species,
- not accumulate in the environment,
- be accompanied by instructions for use and disposal, and
- be efficacious, meaning control odour, help to decrease the waste materials that are present and help to maintain a clear RV and/or marine holding tank environment.

The EcoLogo^{CM} Program has developed technical criteria using known assessment methods in order to address the first four of these issues. After thorough research, the Program has determined that there is no single, internationally and/or nationally accepted test method available to evaluate the last issue, efficacy. Instead, the “proxy” of plate count has been chosen as the measure of efficacy. The Program also recognizes that plate count is only applicable to those biologically-based RV and/or marine holding tank additives that contain bacterial cultures.

For those alternative RV and/or marine holding tank additives that are biologically-based but do not contain bacterial cultures, the Program will accept equivalent efficacy test data that indicate the additive: i) controls odour; ii) helps to decrease the waste materials that are present; and, iii) helps to maintain a clear RV and/or marine holding tank environment. This testing must have been performed by an accredited third party laboratory, and a complete copy of the testing protocol and final report must be made available to the EcoLogo^{CM} Program.

Should any single, nationally or internationally accepted testing protocol for efficacy be developed at some time in the future, the EcoLogo^{CM} Program will perform an evaluation to determine its appropriateness for inclusion in this document.

Based on a review of currently available life cycle information, the product category requirements will produce an environmental benefit through a reduction in toxic emissions.

Life cycle review is an ongoing process. As information and technology change, the product category requirements will be reviewed and possibly amended.

Notice

Any reference to a standard means to the latest edition of that standard.

The EcoLogo^{CM} Program reserves the right to accept equivalent test data for the test methods specified in this document.

Interpretation

1. In the following criteria document:

“ATCC” means American Type Culture Collection, and is a biotechnology organization that has a diverse repository of microorganisms, cell lines and molecular biology materials;

“biodegradable” means readily biodegradable. For a component, it is determined using any of the six test methods described in *OECD Guidelines for Testing of Chemicals*, 301A-301F. For a whole formulation, is determined using one of the methods described in *OECD Guidelines for the Testing of Chemicals*, provided that all measurements and calculations are based on the carbon content of the mixture and its degradation, [i.e. dissolved organic carbon (DOC) removal (301A or 301E), CO₂ evolution (301-B) or oxygen consumption in the presence of an inhibitor of nitrogen metabolism (301C, 301D or 301F)];

“Biosafety Level” means a classification of biological safety that may be documented on a material safety data sheet (MSDS) for a microbial culture. ATCC has the following three classifications for microbial cultures:

- biosafety level 1: the culture is not known to cause disease in healthy human adults or animals,
- biosafety level 2: the culture may cause disease in humans or animals, and
- biosafety level 3: the culture is known to cause serious or potentially lethal disease in humans or animals;
- biosafety level 4: dangerous/exotic agents which pose high risk of life-threatening disease, aerosol-transmitted lab infections; or related agents with unknown risk of transmission

“colony forming unit” means a measure of bacteria concentration assuming that each bacterium is capable of forming a colony;

“OECD” means the Organization for Economic Co-operation and Development; and

“surfactant” (or surface-active agent) means any compound that reduces interfacial tension between two liquids or between a liquid and a solid. The three categories of surfactants are detergents, wetting agents and emulsifiers.

Category Definition

2. This category includes all biologically-based RV and/or marine holding tank additives.

General Requirements

3. To be authorized to carry the EcoLogo^{CM}, the biologically-based RV and/or marine holding tank additive must:
 - (a) meet or exceed all applicable governmental and industrial safety and performance standards; and
 - (b) be manufactured and transported in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations.

Product Specific Requirements

4. To be authorized to carry the EcoLogo^{CM} the biologically-based RV and/or marine holding tank additive must:
 - (a) be in compliance with federal legislation regarding toxicity and biodegradation, including, for Canada, the New Substances Notification Regulations as per the Canadian Environmental Protection Act, 1999;
 - (b) not require being labeled as poisonous or corrosive under:
 - in the US, the Federal Hazardous Substances Act (16 CFR Part 1500), and/or
 - in Canada, the Consumer Chemicals and Containers Regulations of the Hazardous Products Act;
 - (c) have a plate count that is greater than or equal to:
 - i. for solids, 1×10^9 colony forming units per gram, or
 - ii. for liquids, 2×10^7 colony forming units per milliliter;
 - (d) use only those surfactants that:
 - i. are biodegradable, and
 - ii. comprise less than or equal to 3% of the product when calculated on a weight basis for solids or a volume basis for liquids;
 - (e) if derived from or using bacterial cultures, use only those bacterial cultures that are derived from a Biosafety Level 1 ATCC microbial culture (or equivalent); and
 - (f) be accompanied by detailed instructions that identify the following to maximize product performance:

- i. the product's proper disposal and use, and
- ii. the biological component (or the product) may not be effective in the presence of chemical sanitizers such as formaldehyde or chlorine bleach.

Verification

5. To verify a claim that a product meets the criteria listed in the document, the EcoLogo^{CM} Program will require access, as is its normal practice, to relevant quality control and production records and the right of access to production facilities on an announced basis.
6. Compliance with section 3(b) shall be attested to by a signed statement of the Chief Executive Officer or the equivalent officer of the manufacturer. The EcoLogo^{CM} Program shall be advised in writing immediately by the licensee of any non-compliance which may occur during the term of the license. On the occurrence of any non-compliance, the license may be suspended or terminated as stipulated in the license agreement.

Conditions for EcoLogo^{CM} Use

7. The EcoLogo^{CM} may appear on wholesale or retail packaging, or on the product itself, provided that the product meets the requirements in this document.
8. It is required that a criteria statement appear with the EcoLogo^{CM} whenever the EcoLogo^{CM} is used in association with the biologically-based RV and/or marine holding tank additive. The intent of this statement is to provide clarification as to why the product was certified and to indicate constraints to which the certification is limited. This is to ensure no ambiguity over, or misrepresentation of, the reason(s) for certification.

The required criteria statement wording for this product type is "Biologically-based RV and/or Marine Holding Tank Additive". The licensee may propose other wording for the criteria statement, but any such proposed wording must be approved by the EcoLogo^{CM} Program.

9. All licensees and authorized users must comply with the Program's *Guide to Proper Use of the EcoLogo^{CM}* regarding the format and usage of the EcoLogo^{CM}.
10. Any accompanying advertising must conform with the relevant requirements stipulated in this document, the license agreement and the Program's *Guide to Proper Use of the EcoLogo^{CM}*.

**For additional copies of this criteria document or for more information about the
EcoLogo^{CM} Program, please contact:
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