

Environmental Choice^M Program

CERTIFICATION CRITERIA DOCUMENT

CCD-052



Product: Driveway Sealers

Preamble

Pursuant to paragraph 54 (1)(b) of the *Canadian Environmental Protection Act, 1999*, the Minister of the Environment is pleased to publish the following national guideline on **driveway sealers** under the auspices of the Environmental Choice^M Program.

The Environmental Choice 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 services available to Canadians.

Every year in Canada thousands of tonnes of volatile organic compounds (VOCs) are released into the atmosphere. These VOCs react with nitrogen oxides (NO_x) in the presence of sunlight to produce ground level ozone and photochemical smog.

Coal-tar and oil-based driveway sealers contain VOCs such as petroleum distillates. Upon application these VOCs volatilize into the atmosphere. The levels of VOCs in water-based driveway sealers are significantly lower than in other types of liquid driveway sealers. Therefore the use of water-based driveway sealers will reduce VOC emissions in Canada and improve air quality.

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 to the environment.**

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

Environment Canada anticipates that manufacturers or importers of **driveway sealers** which conforms to this guideline will apply to the Environmental Choice Program for verification and subsequent authority to label the qualifying products with the Environmental Choice EcoLogo^M.

Notice

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

The Environmental Choice Program reserves the right to accept equivalent test data for the test methods specified in this guideline.

Notice of Intent

Performance criteria for driveway sealers will be reviewed for possible inclusion in the next revision of this guideline.

Interpretation

1. In the following guideline:

"aromatic solvent" means any organic solvent that has a benzene ring in its molecular structure;

"biochemical oxygen demand" or **"BOD₅"** means the amount of dissolved oxygen required for the biodegradation of the organic matter in water, when tested in accordance with the 5 day test set out in the *Standard Methods for the Examination of Water and Waste Water*, latest edition, Sub-part 5210, jointly published by the American Public Health Association, the American Water Works Association and the Water Pollution Control Federation;

"driveway sealer" means a surface coating intended for sealing a paved asphalt surface;

"flash point" means the minimum temperature of a liquid at which the vapours given off are sufficient to form a flammable mixture with air which will ignite when exposed to an open flame in accordance with the American Society for Testing and Materials (ASTM) test method D93-80 (Pensky-Martens Closed Tester) or ASTM test method D3278-82 (Seta);

"halogenated solvent" means any organic solvent containing halogens including fluorine, chlorine, bromine and iodine;

"total suspended solids" or **"TSS"** means any solid matter that is found to be in effluent when tested in accordance with the test for total suspended solids dried at 103 °C to 105 °C set out in the *Standard Methods for the Examination of Water and Waste Water*, latest edition, Sub-part 2540, Sections A to E, jointly published by the American Public Health Association, the American Water Works Association and the Water Pollution Control Federation; and

"volatile organic compound" or **"VOC"** means any organic compound which participates in atmospheric photochemical reactions. It excludes those organic compounds which the ECP designates as having negligible photochemical reactivity.

Category Definition

2. This category includes all *driveway sealers*.

General Requirements

3. To be authorized to carry the EcoLogo **driveway sealers** 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 including, for facilities located in Canada, the *Fisheries Act* and the *Canadian Environmental Protection Act* (CEPA).

Note: Regarding subsection 3(a), there are no available performance standards that specifically relate to driveway sealers. However, in Canada, standards for similar surface coatings *i.e.* paints are published by the Canadian General Standards Board (CGSB) and the Bureau de Normalisation du Québec (BNQ). Acceptable test methods are available from ASTM and CGSB.

Product Specific Requirements

4. To be authorized to carry the EcoLogo the **driveway sealer** must:
 - (a) not be formulated or manufactured with aromatic solvents;
 - (b) not be formulated or manufactured with halogenated solvents;
 - (c) not be formulated or manufactured with mercury, lead, cadmium, hexavalent chromium and

their compounds;

- (d) not be formulated or manufactured with formaldehyde;
 - (e) be made by a process that does not release matter in the undiluted production plant effluent generating a BOD₅ in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment when tested in accordance with the 5 day test set out in the *Standard Methods for the Examination of Water and Wastewater*, latest edition, Sub-part 5210;
 - (f) be made by a process that does not release TSS in the undiluted production plant effluent in excess of 15 mg/L to a natural watercourse or a sewage treatment facility lacking secondary treatment when tested in accordance with the test for total suspended solids dried at 103° to 105°C set out in the *Standard Methods for the Examination of Water and Wastewater*, latest edition, Sub-part 5240, Sections A to E;
 - (g) have a flash point of 61°C or greater;
 - (h) not contain VOCs in excess of 200 g/L as determined by ASTM test method D3960-92 *Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings*; and
 - (i) be accompanied by information describing proper disposal methods.
5. The calculation of volatile organic compounds in section 4(h) shall exclude water.

Verification

- 6. To verify a claim that a product meets the criteria listed in the guideline, the Environmental Choice 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.
- 7. 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 Environmental Choice Program shall be advised in writing immediately by the licensee of any noncompliance which may occur during the term of the license. On the occurrence of any noncompliance, the license may be suspended or terminated as stipulated in the license agreement. In the event of a dispute related to the suspension or termination of the license, the license agreement provides for arbitration.

Conditions for EcoLogo Use

- 8. The EcoLogo may appear on wholesale or retail packaging, or on the product itself, provided that the product meets the requirements in this guideline.
- 9. It is recommended that a criteria statement appear with the EcoLogo whenever the EcoLogo is used in association with the *photocopier*. 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.

ECP suggested criteria statement wording for this product type is “*Photocopier*”. The licensee may propose other wording for the criteria statement, but any such proposed wording must be approved by the Environmental Choice Program.

10. All licensees and authorized users must comply with the Environmental Choice Program's *Guide to Proper Use of the EcoLogo^M* regarding the format and usage of the EcoLogo.
11. Any accompanying advertising must conform with the relevant requirements stipulated in this guideline, the license agreement and the Environmental Choice Program's *Guide to Proper Use of the EcoLogo^M*.



For more information about the EcoLogoTM Program, please direct your inquiry to:

The EcoLogoTM Program
171 Nepean Street, Suite 400
Ottawa, ON, K2P 0B4
Phone: 1.800.478.0399
www.ecologo.org



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