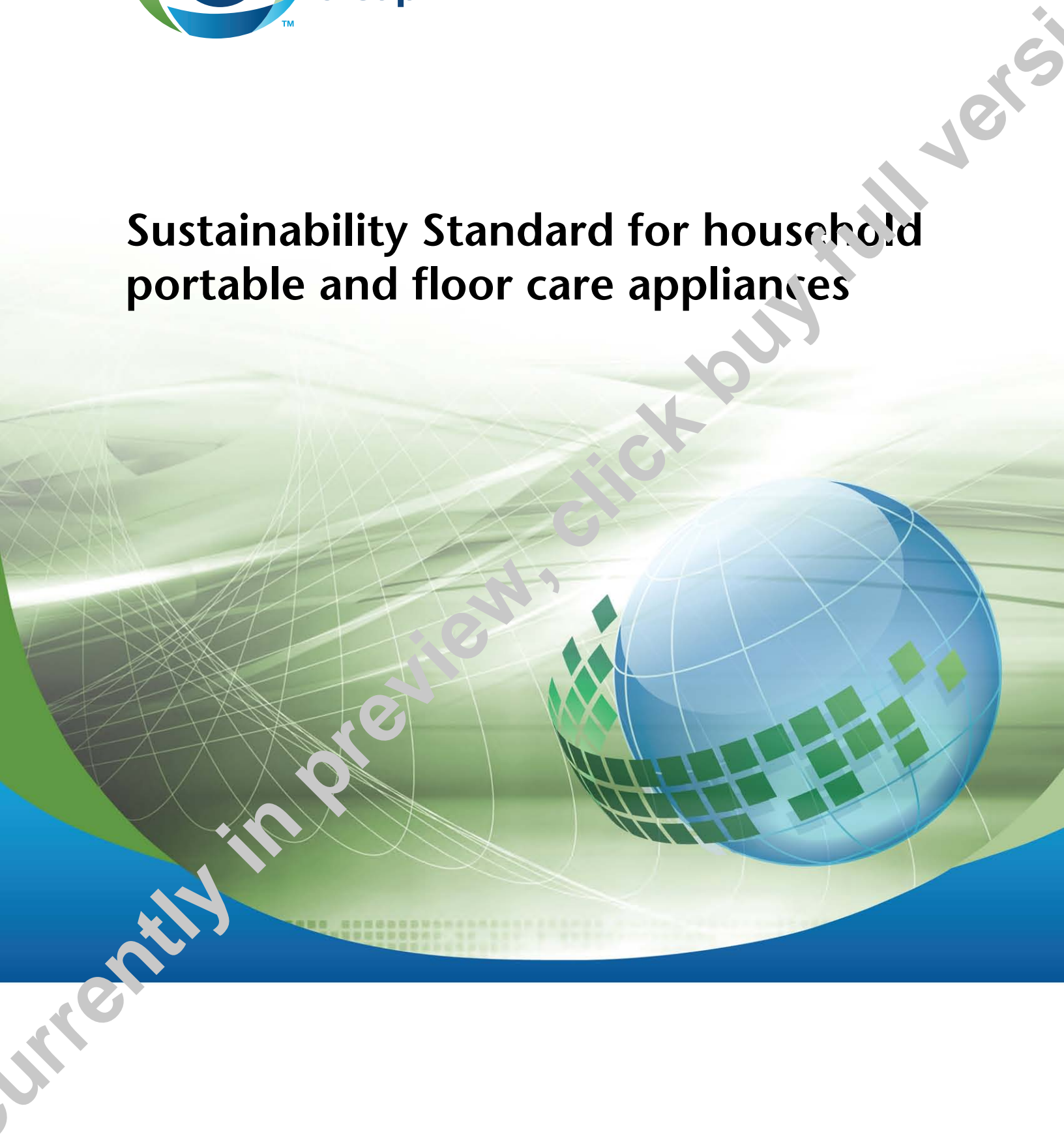




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CSA SPE-7002-14

Sustainability Standard for household portable and floor care appliances



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Foreword

The Association of Home Appliance Manufacturers (AHAM), CSA Group, and Underwriters Laboratories Inc. (UL), as a Task Force, collaborated with experts and stakeholders to develop this non-consensus Standard for home appliances as the first step in a broader Product Sustainability Initiative. The overall goal of this family of Standards is to provide meaningful product sustainability information to consumers and stakeholders. It is intended for this initiative to drive innovation and continual improvement in the sustainability performance of home appliances. This Standard is based on product life cycle information and consideration for consumer expectations. It provides information for consumers, governments, retailers, and other program developers to help distinguish between products based on environmental criteria.

AHAM, CSA, and UL would like to acknowledge the assistance of *PE INTERNATIONAL and Five Winds Strategic Consulting* whose staff served as experts and project managers.



The Association of Home Appliance Manufacturers (AHAM) represents manufacturers of major, portable and floor care home appliances, and suppliers to the industry in the U.S. and Canada. AHAM's membership includes over 150 companies throughout the world. AHAM is also a standards development organization, accredited by the American National Standards Institute (ANSI) and authors numerous appliance performance testing standards used by manufacturers, consumer organizations and governmental bodies to rate and compare appliances. AHAM administers several appliance rating verification programs, employing third party laboratories. AHAM's consumer safety education program has educated millions of consumers on ways to properly and safely use appliances such as portable heaters, clothes dryers, and cooking products.



Canadian Standards Association (operating as "CSA Group") is a not-for-profit membership-based association serving business, industry, government, and consumers in the global marketplace. As a solutions-oriented organization, we work around the world to develop standards that address real needs, such as enhancing public safety and health, advancing the quality of life, helping to preserve the environment, and facilitating trade.



Underwriters Laboratories Inc. (UL) is a global independent safety science company offering expertise across five key strategic businesses: Product Safety, Environment, Life & Health, Knowledge Services and Verification Services. Our breadth, established objectivity, and proven history mean we are a symbol of trust and enable us to help provide peace of mind to all. In addition to being a leader in safety science, UL is a world leader in standards development for safety, health, and sustainability. Through more than a century of involvement in the standards and conformity assessment community, UL is recognized for its unrivaled technical expertise and our Standards are used to evaluate and certify products and systems. UL Standards are used by manufacturers to help them design products and systems to meet the requirements for certification, by code development organizations that adopt and reference them in their codes, and by certification organizations that utilize UL requirements for their own certifications.

Preface

This is the first edition of AHAM 7002/CSA SPE-7002/UL 7002, *Sustainability Standard for portable and floor care appliances*. This is a non-consensus document.

The environmental performance of portable and floor care home appliances are commonly evaluated on a few environmental attributes such as electricity consumption during use or materials. This Standard on home appliance sustainability for portable and floor care products takes a broader, multi-attribute, and more holistic approach to assessing the environmental impacts of these small home appliances.

The multi-attribute approach was developed using life-cycle assessment (LCA) information along with other key factors such as hot-spot or hot-button analyses influencing product environmental performance. This approach, detailed in [Annex A](#), determined the environmental attributes of portable and floor care appliances for inclusion in this Standard.

In 2009, a number of AHAM members had contacted AHAM staff about the subject of sustainability and encouraged us to consider developing sustainability standards. By April 2010 a number of encouragements of this pathway were coming together from different directions. First, several AHAM members were asking for a way to rate the overall environmental performance of their products rather than have individual requirements based on energy and water use, packaging, end-of-life, Greenhouse Gas emissions, and chemicals used in the manufacture of the products. Second, government agencies such as Environment Canada, U.S. EPA, and quasi-governmental programs such as EPEAT for environmentally preferable purchasing were beginning to utilize sustainability standards or encouraging their use. Third, retailers were beginning to discuss the use of sustainability measures to determine the environmental performance of the products they carried. Fourth, several outside standards development organizations such as UL, CSA, NSF, US Green Building Council, and several trade associations were developing sustainability standards for products. Based on all these forces, the AHAM membership and the AHAM Board of Directors at the 2010 AHAM Annual Meeting voted unanimously to have AHAM develop sustainability standards using a collaborative process. The first meetings of the Portable and Floor Care Division were held in June 2010 on this subject and heard reports from several members as to their individual research on sustainability. From this, a Portable and Floor Care Sustainability Standards Task Force was formed, consisting of companies that wished to be part of the standards development process along with representative from UL Environment, CSA Group, and Five Winds Consulting.

It has been contemplated by all parties that this Standard will be updated within a few years in keeping with AHAM's Policy and Procedures Governing Technical Standards. Many of the measurements included within this Standard are unique and have not been conducted on other appliance categories. The Task Force expects to learn much from the application of this First Edition in the ensuing years. The use of this Standard and self-assessment by manufacturers will be used to improve the Standard in drafting the second and subsequent editions.

This Standard was written specifically for products placed on the market in the United States and Canada. At the present time, a number of the calculations are based on systems specific to North America.

This Standard was prepared by the Task Force on AHAM-CSA Group-UL Sustainability Standard for Portable and Floor Care Household Appliances, under the jurisdiction of AHAM's Portable and Floor Care Engineering Councils, CSA Strategic Steering Committee on Business Management and Sustainability, and UL Environment.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

CSA SPE-7002-14

Sustainability Standard for household portable and floor care appliances

1 Scope

1.1

This Standard covers portable and floor care home appliances intended for household use, including

- (a) air treatment appliances;
- (b) food and beverage preparation appliances;
- (c) counter top cooking appliances;
- (d) personal care appliances;
- (e) garment care appliances; and
- (f) floor care appliances.

See [Annex B](#) for a list of portable and floor care home appliances under these six headings.

1.2

This Standard does not cover air treatment appliances containing refrigerants or portable and floor care appliances intended for commercial use.

1.3

This Standard does not cover portable or floor care appliances that are powered by primary cell batteries.

Note: As defined by Merriam-Webster (www.m-w.com), a primary cell is “a type of battery that converts chemical energy into electrical energy by irreversible chemical reactions”. A common example of a primary cell is the disposable battery.

1.4

For purposes of this Standard, the product evaluation includes those consumables used as part of the normal function of the product as well as parts or accessories that are packaged with the product.

1.5

This document constitutes the First Edition of this Standard. Companies that will use this Standard in the beginning for assessment of the environmental performance of their products will begin with the First Edition. If and when subsequent editions of this Standard are published, these subsequent editions might carry an “effective date” that provides manufacturers with time to meet the new requirements and enables them to identify their products that have been assessed to the new edition.

1.6

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.