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Canadian General Standards Board | Office des normes générales du Canada

Series 2

Série des 2

WITHDRAWAL

February 2012

Selected standards in the series Soaps and detergents

These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

The Standards Council of Canada requires that accredited Standards Development Organizations, such as the CGSB, regularly review a consensus Standard to determine whether to re-approve, revise or withdraw. The review cycle is normally five years from the publication date of the latest edition of the Standard.

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RETRAIT

Février 2012

Sélection de normes de la série Savons et détergents

Ces Normes nationales du Canada sont retirées par le présent avis en raison de leur utilisation limitée et du manque de support pour leur révision.

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the date on this withdrawal notice.

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CAN/CGSB-2.1-96

Skin Cleaning Lotion (ICS 71.100.70)

CAN/CGSB-2.5-93

Toilet Soap (ICS 71.100.70)

CAN/CGSB-2.9-97

Scouring Powder (ICS 71.100.40)

CAN/CGSB-2.11-94

Methods of Sampling and Testing Soaps and Detergents (ICS 71.040.40)

CAN/CGSB-2.16-94

Waterless Hand Cleaner (ICS 71.100.70)

CAN/CGSB-2.19-96

Hand Dishwashing Compound (ICS 71.100.40)

CAN/CGSB-2.20-94

Machine Dishwashing Compound (ICS 71.100.40)

CAN/CGSB-2.22-97

Concentrated Dishwashing Rinse Additive (ICS 71.100.40)

CAN/CGSB-2.34-95

Guide to the Selection and Use of Soaps and Detergents (ICS 71.100.40)

seulement puisque leur contenu a été révoqué à la date du présent avis de retrait.

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CAN/CGSB-2.1-96

Lotion nettoyante pour la peau (ICS 71.100.70)

CAN/CGSB-2.5-93

Savon de toilette (ICS 71.100.70)

CAN/CGSB-2.9-97

Poudre à récurer (ICS 71.100.40)

CAN/CGSB-2.11-94

Méthodes d'échantillonnage et d'essai des savons et détergents (ICS 71.040.40)

CAN/CGSB-2.16-94

Nettoie-mains employé sans eau (ICS 71.100.70)

CAN/CGSB-2.19-96

Détergent pour lavage de la vaisselle à la main (ICS 71.100.40)

CAN/CGSB-2.20-94

Détergent pour lave-vaisselle (ICS 71.100.40)

CAN/CGSB-2.22-97

Agent de rinçage concentré pour lave-vaisselle (ICS 71.100.40)

CAN/CGSB-2.34-95

Guide pour le choix et l'utilisation des savons et détergents (ICS 71.100.40)

CAN/CGSB-2.42-97

Stain Remover for Tableware (ICS 71.100.40)

CAN/CGSB-2.43-93

Scale-Removing Compound for Lime Deposits (ICS 71.100.40)

CAN/CGSB-2.46-95

Toilet Bowl and Urinal Cleaning Compound (ICS 71.100.40)

CAN/CGSB-2.47-94

Toilet Bowl Cleaning Compound (Granular or Crystalline) (ICS 71.100.40)

CAN/CGSB-2.49-94

Alkali Drain Cleaner (ICS 71.100.40)

CAN/CGSB-2.112-92

Remover for Water-Emulsion Floor Polish (ICS 71.100.40)

CAN/CGSB-2.141-92

General-Purpose Powder Cleaning Compound (ICS 71.100.40)

CAN/CGSB-2.175-93

Concentrated Nonionic, Unbuilt Liquid Detergent (ICS 71.100.40)

CAN/CGSB-2.180-94

Carpet and Upholstery Shampoo (ICS 71.100.40)

CAN/CGSB-2.42-97

Détachant pour vaisselle (ICS 71.100.40)

CAN/CGSB-2.43-93

Décapants pour dépôts calcaires (ICS 71.100.40)

CAN/CGSB-2.46-95

Produit de nettoyage pour cuvette de toilette et urinoir (ICS 71.100.40)

CAN/CGSB-2.47-94

Produit de nettoyage pour cuvette de toilette (Granules ou cristaux) (ICS 71.100.40)

CAN/CGSB-2.49-94

Produit de nettoyage alcalin pour tuyaux d'écoulement (ICS 71.100.40)

CAN/CGSB-2.112-92

Décapant pour planchers revêtus de cire de type émulsion aqueuse (ICS 71.100.40)

CAN/CGSB-2.141-92

Poudre de nettoyage, d'usage général (ICS 71.100.40)

CAN/CGSB-2.175-93

Détergent liquide concentré non ionique, sans additifs (ICS 71.100.40)

CAN/CGSB-2.180-94

Shampooing pour tapis et tissus d'ameublement (ICS 71.100.40)

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CAN/CGSB-2.22-97

Supersedes CAN/CGSB-2.22-92

Concentrated Dishwashing Rinse Additive

Withdrawn/Retirée

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Although the intended primary application of this standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.22-97

Supersedes CAN/CGSB-2.22-92

CONCENTRATED DISHWASHING RINSE ADDITIVE

Withdrawn/Retiree

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Approved by the
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Acknowledgment is made for the translation of this National Standard of Canada by the Translation Bureau of Public Works and Government Services Canada.

CANADIAN GENERAL STANDARDS BOARD

CONCENTRATED DISHWASHING RINSE ADDITIVE

1. SCOPE

1.1 This standard specifies the requirements for a concentrated dishwashing rinse additive used in the final rinse cycle of mechanical dishwashing machines equipped with a suitable rinse injector device. The additive aids in eliminating water spotting and filming of tableware in water of any hardness.

1.2 The testing and evaluation of a product against this standard may require the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this standard has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any applicable regulatory requirements prior to its use.

2. REFERENCED PUBLICATIONS

2.1 The following publications are referenced in this standard:

2.1.1 Canadian General Standards Board (CGSB)

CAN/CGSB-2.11 — Methods of Sampling and Testing Soaps and Detergents.

2.1.2 Industry Canada (IC)

Principles and Guidelines for Environmental Labelling and Advertising.

2.1.3 American Society for Testing and Materials (ASTM)

D 482 — Standard Test Method for Ash from Petroleum Products

D 2024 — Standard Test Method for Cloud Point of Nonionic Surfactants.

2.2 A reference to a regulation is always to the latest issue. A dated reference is to the issue specified. An undated reference is to the latest issue, unless otherwise specified by the authority applying this standard. The sources are given in the Notes section.

3. GENERAL REQUIREMENTS

3.1 The rinse additive shall consist of wetting agents, combined with or without a defoamer and acid as necessary, to meet the requirements of this standard.

3.2 The rinse additive shall be suitable for use in a mechanically activated or water-powered injector mechanism.

3.3 The rinse additive shall be distinctly coloured with a stable colorant so that the liquid level in the rinse additive reservoir will be readily visible. After storage for one year in its original unopened container, the rinse additive shall still remain distinctly coloured and suitable for use.

3.4 The rinse additive, when added to the final rinse water in the proportions stipulated by the supplier, shall accelerate drying and minimize spotting of tableware.

3.5 The rinse additive shall be suitable for use in either soft or hard water.

3.6 The rinse additive, when used as directed, shall not be corrosive to the machine, the injector or the utensils.

3.7 Traces of rinse additive that may be left on tableware following use of the product as directed shall not constitute a health hazard.

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3.8 The rinse additive shall comply with any relevant Government Act or Regulation.

4. DETAILED REQUIREMENTS

The rinse additive shall comply with the following detailed requirements:

		Min.	Max.	Test Method
4.1	Ash content, % by mass	—	0.25	ASTM D 482
4.2	Cloud point (undiluted solution)	45°C	—	ASTM D 2024
4.3	Foam height, mm	—	15	Par. 6.2.1
4.4	Non-volatile matter, % by mass	15	—	Par. 6.2.2
4.5	pH (1.0% solution)	5.5	8.5	CAN/CGSB-2.11 Method 18.1

4.6 **Solution Stability** — The rinse additive shall remain as a homogeneous solution; there shall be no separating, layering, crystallizing crust, film formation, or hardening of the surface of the sample when tested in accordance with par. 6.2.3.

5. PREPARATION FOR DELIVERY

5.1 **Packaging, Packing and Marking** — Unless otherwise specified (par. 7.1), normal commercial packaging, packing and marking shall be acceptable.

5.2 **Labelling**

5.2.1 The label shall comply with the requirements of any relevant Government Acts and Regulations.

5.2.2 Environmental claims and/or representation shall follow Industry Canada's "Principles and Guidelines for Environmental Labelling and Advertising".

5.2.3 In addition to complying with the labelling requirements of any relevant Government Acts and Regulations, each container and each shipping container shall be suitably marked with the following information printed in boldface type, and the label shall be securely affixed to the container:

CONCENTRATED DISHWASHING RINSE ADDITIVE
Manufacturer's or supplier's name
Date packaged
Unit size (volume)
Standard number: CAN/CGSB-2.22-97.

5.2.4 Reference to the standard on the label shall be to the latest issue.

6. INSPECTION

6.1 **Sampling** — Sampling shall be in accordance with CAN/CGSB-2.11, Method 1.3.

6.2 **Testing**

6.2.1 ***Determination of Foam Height***

6.2.1.1 *Equipment*

Stirring Motor — The stirring motor shall be a Hamilton Beach Model No. 936 mixer or equivalent, with the stirring blade attached. Remove the motor with stirring blade from its original stand and support it on a ring stand by means of a 250 mL beaker clamp.

Test cell — The test cell shall be a glass cylinder sealed at one end to provide a flat bottom having a 70 mm inside diameter and a 185 mm height.

Baffle — The baffle used shall be a cage constructed as shown in Figure 1.

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Water bath — The water bath shall be capable of maintaining a temperature of 82 ± 0.5°C in the test cell.

6.2.1.2 *Procedure* — Place 200 mL of 0.01% test solution of rinse additive (using distilled or de-ionized water) in the test cell and allow it to equilibrate in an 82 ± 0.5°C bath. Measure the height of the liquid. Centre the stirrer between the four baffles and clamp it in position so that the liquid level is midway between the two blades on the stirrer. Run the stirring motor for 3 min ± 2 s at approximately 19 000 r/min, to allow the foam to reach maximum height; then stop the motor and measure the foam height after 5 s. Determine the foam height by measuring the total height in millimetres of the combined foam and liquid (from the bottom of the test cell), and subtracting the initial height of liquid measured prior to agitation. The difference is proportional to the volume of entrapped air and is designated as foam height. Make two complete determinations of foam height at this temperature. Rerun the above test using a 60 ± 0.5°C water bath.

6.2.1.3 Average the four foam heights determined as specified above and report to the nearest millimetre.

6.2.2 ***Non-volatile Matter*** — Determine the mass of 20 to 40 g of the rinse additive to the nearest 0.1 g and place it in a tared evaporating dish. Place the dish in a controlled temperature oven maintained at 105 ± 2°C for 16 h; remove, cool, and weigh to a constant mass. Calculate the total non-volatile matter to the nearest 0.1%.

6.2.3 ***Solution Stability*** — Measure 200 mL of the rinse additive into a 300 mL tall form (Berzelius) beaker, cover it with a watch glass, and place it in a constant temperature water bath or a controlled temperature oven at 60 ± 2°C for 3 h. Remove from the oven or bath, uncover the beaker and allow the rinse additive to attain room temperature (22 ± 2°C) and examine it.

7. NOTES

7.1 **Option** — The following option must be specified in the application of this standard:

a. Packaging, packing, and marking details, if other than as specified (par. 5.1).

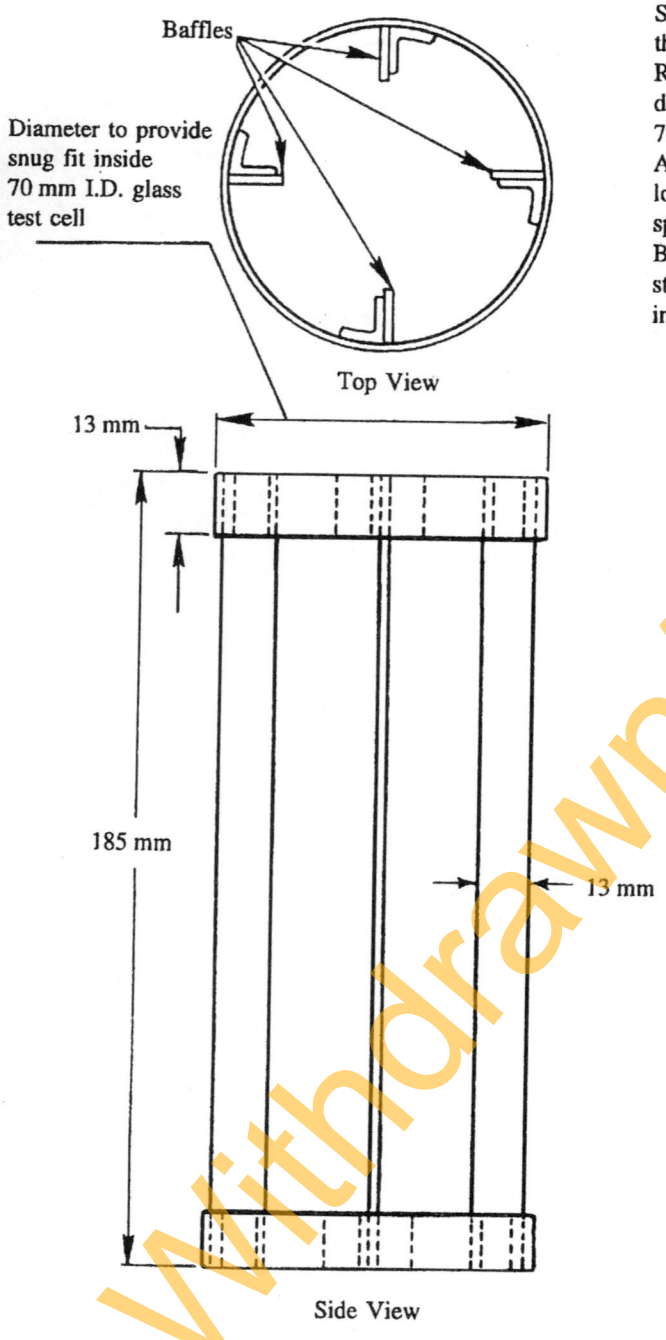
7.2 **Sources of Referenced Publications**

7.2.1 The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Canada K1A 1G6. Telephone (613) 941-8703 or 1-800-665-CGSB (Canada only). Fax (613) 941-8705.

7.2.2 The publication referred to in par. 2.1.2 may be obtained from Industry Canada, Consumer Packaging and Labelling Section, Ottawa, Canada K1A 0C9.

7.2.3 The publications referred to in par. 2.1.3 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A. Telephone (610) 832-9500 or from the Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7. Telephone (613) 238-3222 or 1-800-267-8220 (Canada only).

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Strips of 160 mm (16 gauge) stainless steel are used throughout the assembly.
Ring joints are lapped, spot welded and feathered in a diameter capable of providing a snug fit inside the 70 mm I.D. glass tubing.
Angles are formed by using 13 mm wide by 25 mm long strips, bent in the centre of the long direction and spot welded to the formed rings.
Baffles are formed using 13 mm wide by 185 mm long strips, spot welded to the angles in the positions indicated on the diagram.

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FIGURE 1

Baffle Cage for Foam Height Determination

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