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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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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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Canadian
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CAN/CGSB-2.19-96

Supersedes CAN/CGSB-2.19-92

Hand Dishwashing Compound

Withdrawn/Retirée

National Standard of Canada

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.19-96

Supersedes CAN/CGSB-2.19-92

HAND DISHWASHING COMPOUND

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Acknowledgment is made for the translation of this National Standard of Canada by the Translation Bureau of the Department of the Secretary of State.

CANADIAN GENERAL STANDARDS BOARD

HAND DISHWASHING COMPOUND

1. SCOPE

1.1 This standard states the physical and chemical requirements for a liquid mixture of surface-active agents and suitable solubilizers intended for use in hand dishwashing.

1.2 Material produced in accordance with this standard is designed for hand dishwashing. It is, however, a general-purpose product that should be reasonably satisfactory for a number of other cleaning operations such as washing delicate fabrics, cleaning metal surfaces and walls, and washing vehicles.

1.3 Material produced in accordance with this standard is not suitable for dishwashers.

1.4 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

CAN/CGSB-25.1 — Methods of Sampling and Testing Waxes and Polishes:

No. 2 — Flash Point.

2.1.2 Industry Canada (IC)

Principles and Guidelines for Environmental Labelling and Advertising.

2.1.3 Revenue Canada (RC)

Circular ED 204-3 — Guidelines for Denatured Alcohol Operations — Specifications for Denatured Alcohol.

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 hand dishwashing compound shall be suitable for use in soft or hard water.

3.2 The hand dishwashing compound shall be a clear, homogeneous liquid, free from visible foreign matter.

3.3 The hand dishwashing compound shall have no injurious effect on the skin.

3.4 The hand dishwashing compound shall be free from objectionable odour as received and in solution in hot water, and shall not develop such odour in storage within twelve months of delivery.

3.5 The hand dishwashing compound shall be stable, and shall not lose its effectiveness or otherwise deteriorate when retained in an unopened container at ordinary storage temperatures within a range of 10 to 38°C for a period of one year.

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3.6 The hand dishwashing compound shall contain surface-active agents as specified in par. 3.7 and may contain urea, and suitably denatured alcohol[1] as may be necessary to maintain solution clarity. It shall not contain other non-aqueous solvents.

3.7 Unless otherwise specified (par. 7.1), the hand dishwashing compound shall contain the following surface-active agent:

3.7.1 Sodium, ammonium, magnesium, or amine linear alkyl benzene sulphonate; the molecular mass (based on sulphonic acid) shall be from 312 to 326.

3.7.2 Sodium, ammonium, magnesium, or amine alkyl ethoxy sulphate; the molecular mass (based on alkyl ethoxy sulphuric acid) shall be from 398 to 424. The ratio of alkyl benzene sulphonate to alkyl ethoxy sulphate (based on the acids) shall not exceed 4:1.

4. DETAILED REQUIREMENTS

In the analysis of the dishwashing compound, the results obtained shall be expressed on the basis of the sample as received. The compound shall comply with the following requirements:

		Min.	Max.	Test Method
4.1	Total anionic surface-active agents, determined on the basis of an average molecular mass 335, % by mass	22.5	—	CAN/CGSB-2.11 Method 17.3
4.2	Total nonionic surface-active agents, % by mass[2]	1.8	—	Par. 6.3.1
4.3	pH (1% aqueous solution)	6.5	7.5	CAN/CGSB-2.11 Method 18.1

4.4 **Rinsing Properties** — When tested in accordance with CAN/CGSB-2.11, Method 31.2, a 2% solution of the compound in synthetic water (a hardness of 300 mg/L) shall be free-rinsing.

4.5 **Low-Temperature Stability** — When tested in accordance with CAN/CGSB-2.11, Method 43.1, after the product has been held at 0°C for 24 h and then brought to room temperature, it shall remain a homogeneous liquid.

4.6 **High-Temperature Stability** — After the product has been held at 50°C for 24 h and then brought to room temperature, it shall remain a homogeneous liquid.

4.7 **Flash Point** — When tested in accordance with CAN/CGSB-25.1 No. 2, Procedure 2, the flash point of the compound shall not be less than 38°C.

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 In addition to complying with the labelling requirements of any relevant Acts and Regulations, each container shall be suitably labelled to show the following information:

HAND DISHWASHING COMPOUND

Manufacturer's or supplier's name

Date packaged

Unit size (volume)

Standard number: CAN/CGSB-2.19-96

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[1]The denatured ethanol shall not contain methanol.

[2] Alkyl Phenol Ethoxylates (APE) shall not be used.

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This product, when dissolved in warm water, will efficiently remove grease and other soils from eating utensils. **WARNING:** This product has high sudsing characteristics and should never be used in dishwashing machines.

Dilution rate: For normal dishwashing operations, use 2 to 3 mL of the hand dishwashing compound per litre of water.

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

6. INSPECTION

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

6.2 **Preparation of Samples** — Preparation of samples in the laboratory shall be carried out in accordance with CAN/CGSB-2.11, Method 2.

6.3 **Testing**

6.3.1 ***Total Nonionic Surface-Active Agents (Ion Exchange Resin Method)***

6.3.1.1 *Reagent*

Ethanol, denatured — Denatured ethanol conforming to ED 204-3, grade DAG-2A, or equivalent. Do not use alcohols denatured with high-boiling point liquids.

6.3.1.2 *Apparatus and Materials*

Monobed anion/cation exchange resin — One of the following:

a. Amberlite® MB-3 or Rexyn® 1-300. Both Amberlite® MB-3 and Rexyn® 1-300 are ready for use.

b. Amberlite® MB-1. Amberlite MB-1 must be rinsed several times with alcohol before use.

Rapid filter paper — Whatman No. 1, 41, or equivalent.

Balance, analytical.

Steam bath.

Vacuum desiccator.

6.3.1.3 *Procedure*

a. Accurately determine the mass of about 12 g of the liquid detergent sample (m_s) into a 250 mL beaker. Determine the mass by difference using a capped narrow-form weighing bottle to prevent loss of volatiles.

b. Slowly add approximately 75 mL of hot denatured ethanol to the specimen while stirring vigorously. It is important that this operation be carried out slowly since too rapid a precipitation of the alcohol-insoluble residue will cause it to occlude a portion of the nonionic material in the mixture.

c. Simmer the mixture for 5 min on a hot plate, stirring occasionally. Do not attempt to boil vigorously as this causes bumping and spattering.

d. Remove the beaker from the hot plate and allow the insoluble matter to settle.

e. Carefully decant the solution through a rapid filter paper into a 250 mL volumetric flask.

f. Repeat steps b., c., d. and e. three times ***but using* 30 mL *portions*** of hot denatured ethanol.

g. Cool the flask and content to 20°C and fill to the mark with denatured ethanol. Mix well.

h. Pipette a 50 mL aliquot into a 250 mL beaker and add approximately 30 g of the monobed resin. Stir with a mechanical or magnetic stirrer for at least 20 min. Stir thoroughly but avoid too high a speed.

i. Filter the mixture from step h. through a rapid filter paper keeping as much resin as possible in the original beaker. Collect the filtrate in a 250 mL beaker. Ignore any indicator colour that may wash off the resin.

j. Add 25 mL of denatured ethanol to the resin, stir and filter as before. Repeat this step three times. Finally, wash the filter paper with about 20 mL of denatured alcohol.

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k. On a steam bath, evaporate the combined filtrate and washings to about 40 mL. Quantitatively transfer the solution to a tared, wide-mouth weighing-bottle. Continue evaporation on the steam bath until the alcohol odour ***has just disappeared***. Do not heat the residue.

l. Place the weighing-bottle (cap off) in a vacuum desiccator with the vacuum full or until a constant mass has been attained. Record the mass of the residue (m_r).

m. Calculate the total nonionic content as follows:

$$\text{Total nonionic content } (\%) = \frac{m_r \times 5 \times 100}{m_s}$$

where:

m_r = mass of residue, g

m_s = mass of original specimen, g

7. NOTES

7.1 **Options** — The following options must be specified in the application of this standard:

a. Surface-active agents used in the hand dishwashing compound (par. 3.7)

b. Packaging, packing and marking details, if other than normal commercial practice (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 publication referred to in par. 2.1.3 may be obtained from Revenue Canada, Excise Duty Operations, Vanier, Ontario K1A 0L5.

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