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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

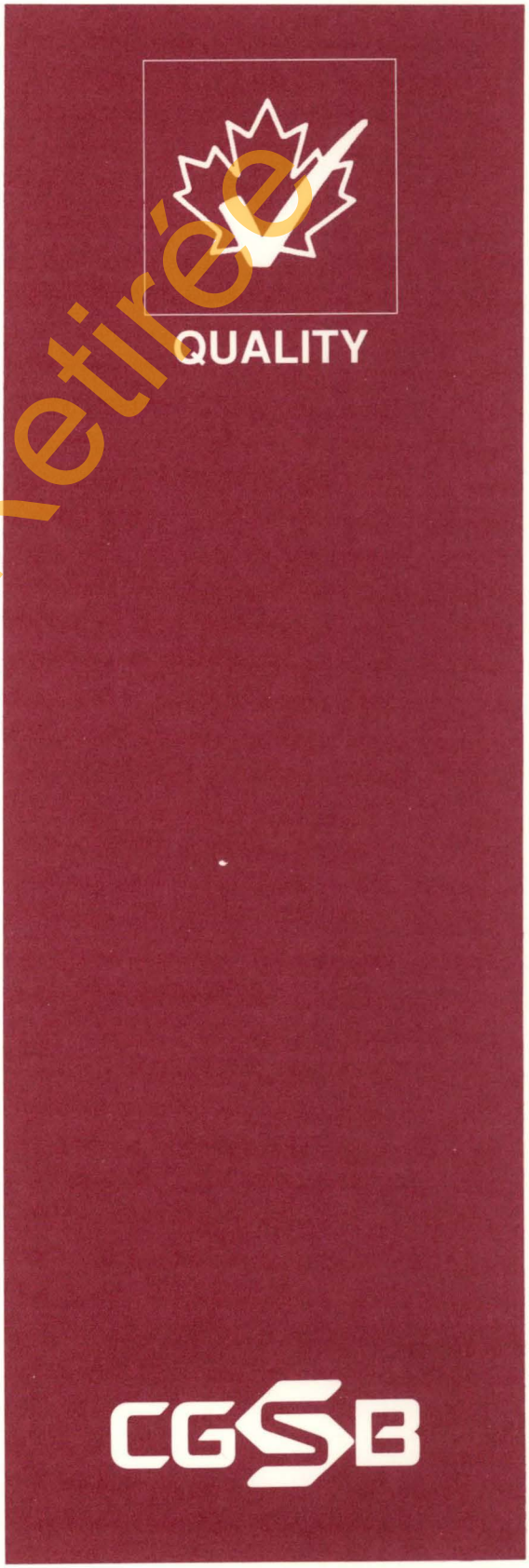
Shampooing pour tapis et tissus d'ameublement (ICS 71.100.40)

NATIONAL STANDARD OF CANADA

CAN/CGSB-2.175-93

Supersedes CAN/CGSB-2.175-M86

Concentrated Nonionic, Unbuilt Liquid Detergent



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Canadian General Standards Board

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.175-93

Supersedes CAN/CGSB-2.175-M86

CONCENTRATED NONIONIC, UNBUILT LIQUID DETERGENT

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

CANADIAN GENERAL STANDARDS BOARD

CONCENTRATED NONIONIC, UNBUILT LIQUID DETERGENT

1. SCOPE

1.1 This standard states physical and chemical requirements for a liquid, nonionic detergent intended for light-duty cleaning and laundering.

1.2 This includes detergent of the polyethylene-glycol linear alkyl ether or alkyl aryl types, or polyalkylene-glycol (copolyol) including end group modified linear alkyl ether or alkyl aryl ether types.

1.3 For more detailed information on intended uses, see par. 7.2.

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 existing applicable regulatory requirements prior to its use.

2. APPLICABLE PUBLICATIONS

2.1 The following publications are applicable to this standard:

2.1.1 Canadian General Standards Board (CGSB)

2-GP-11 — Methods of Testing and Analysis of Soaps and Detergents

CAN/CGSB-2.34 — Guide to the Selection and Use of Soaps and Detergents.

2.2 Reference to the above publications is to the latest issues unless otherwise specified by the authority applying this standard. The source of these publications is shown in the Notes section.

3. GENERAL REQUIREMENTS

3.1 The detergent shall be a homogeneous liquid and shall not contain builders or soap and have no injurious effect on the skin.

3.2 It shall be suitable for cleaning, when used with soft, hard or sea water, with or without the addition of builders.

3.3 It shall be free from objectionable odour as received and in solution in hot water, and shall not develop such odour in storage within one year of delivery.

3.4 When held under normal conditions of storage in suitable unopened containers for a period of one year, the detergent shall remain stable and homogeneous.

4. DETAILED REQUIREMENTS

In the analysis of the detergent, the results obtained shall be expressed on the basis of the sample as received.

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4.1 **Composition** — The synthetic detergent shall be a liquid nonionic condensation product of the polyethylene-glycol linear alkyl ether or alkyl aryl ether types, or polyethylene-glycol (copolyol) including end group modified linear alkyl ether or alkyl aryl ether types (see par. 6.3 regarding disclosure of the active ingredient). The detergent shall comply with the following detailed requirements:

		Min.	Max.	Test Method
4.1.1	Volatile matter at 105°C, % by mass	—	2.5	2-GP-11/13.1
4.1.2	Active content, % by mass (100 – % volatile matter at 105°C)	97.5	—	—
4.1.3	Cloud point of 1% aqueous solution, °C	49	88	Par. 6.2.1
4.1.4	Soap, % by mass	—	Nil	2-GP-11/29.1
4.1.5	Water insoluble matter, % by mass	—	Nil	2-GP-11/10.3
4.1.6	pH (1% aqueous solution)	6.0	8.0	2-GP-11/18.1
4.1.7	Stability to hard water, mL of curd	—	Nil	2-GP-11/19.1
4.1.8	Stability to sea water, mL of curd	—	Nil	2-GP-11/19.2
4.1.9	Relative density (at 20 ± 0.1°C) as determined for:			Par. 6.2.2
	Polyethylene-glycol linear alkyl ethers	0.98	1.02	—
	Polyethylene-glycol alkyl aryl ethers	1.05	1.07	—
	Polyalkylene-glycol (Copolyol), including end group modified linear alkyl ethers	1.01	1.05	—
	Polyalkylene-glycol, including end group modified alkyl aryl ethers	1.01	1.04	—
4.1.10	Saponification number	—	5.0	Par. 6.2.3
4.1.11	Ash content, % by mass	—	0.25	Par. 6.2.4

4.2 **Rinsing Properties** — When tested in accordance with CGSB standard 2-GP-11, Method 31.1, the detergent shall be free-rinsing.

4.3 **Solubility** — When tested in accordance with CGSB standard 2-GP-11, Method 32.1, the detergent shall be completely soluble in distilled water.

4.4 **Other Determinations** — At the discretion of the testing authority and as specified (par. 7.1), other analyses may be made to determine whether the material complies with the requirements of this standard (e.g. infra-red spectroscopy to confirm the surfactant type).

5. PREPARATION FOR DELIVERY

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

5.2 **Labelling** — In addition to meeting the requirements of all relevant Acts and Regulations and unless otherwise specified (par. 7.1), each container of detergent shall be durably and legibly labelled with the following information:

DETERGENT

This product when dissolved in either fresh water or sea water will efficiently remove grease, oil and dirt from a wide variety of surfaces. It is non-toxic and nonflammable both when concentrated and when diluted with water. This product has low sudsing characteristics; therefore, cleaning power, not suds level, should be used as the guide to correct concentration. For normal cleaning operations use 6 to 12 g of product per 5 L of fresh or sea water, preferably hot. For heavy soil removal use 30 g of product per 5 L of water. The addition of 25 to 50 g of an alkali, such as sodium metasilicate or machine dishwashing compound, to each 5 L of dilute fresh-water solution will

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increase its cleaning power, but alkali should not be used when the solution is prepared with sea water. Scrub, mop or otherwise apply the solution to the soiled article or surface, then rinse with either fresh water or sea water. Cold-water rinsing is satisfactory but hot water may be used when it is desired to have surfaces dry quickly. Wiping may be used if rinsing is not practical. Closed systems such as compressed air lines, heat exchangers and similar items may be cleaned by recirculating a hot solution of the detergent for one to three hours followed by rinsing. For laundering woollens and fine fabrics, use 6 to 12 g of product per 5 L of water. For heavy-duty laundering (e.g. most cottons, cotton/synthetic-fibre blends and heavily soiled synthetic-fibre blends and heavily soiled synthetic-fibre fabrics) add 25 to 30 g of one of the alkaline builders listed above to each 5 L of dilute solution (except with sea water). This detergent may also be added to cleaning compositions containing organic or inorganic acids.

6. INSPECTION

6.1 **Sampling** — Sampling shall be in accordance with CGSB standard 2-GP-11, Method 1.3. Preparation of samples in the laboratory shall be in accordance with CGSB standard 2-GP-11, Method 2.

6.2 **Testing**

6.2.1 ***Cloud Point*** — Dissolve 1.0 g of detergent in 100 mL of distilled water. Transfer 10 mL of this solution to a clean, dry 25 × 200 mm test tube, and insert a thermometer. Insert the test tube about halfway into an 800 mL beaker nearly full of water. Stir the water mechanically and apply low heat to raise the temperature slowly. Stir until a preliminary indication of cloud point is obtained by turbidity developing in the layers next to the wall of the test tube. From the time this is observed until the solution suddenly becomes cloudy, stir the sample continuously with the thermometer. Report the cloud point as the temperature at which cloudiness appears throughout.

6.2.2 ***Relative Density*** — Determine the relative density by any convenient method having sufficient accuracy.

6.2.3 ***Saponification Number*** — Accurately determine the mass of approximately 5 g of sample into a 300 mL Erlenmeyer flask and add from a pipette 50.0 mL of approximately 0.5 mol/L alcoholic potassium hydroxide. Heat on a water or steam bath under reflux for 1 h. Add three drops of 1% phenolphthalein in alcohol and titrate with standardized 0.25 mol/L sulphuric acid. Repeat the procedure on a blank. Calculate the saponification number (milligrams of KOH required for 1 g of sample) as follows:

$$\text{Saponification number} = \frac{(B - A) \times c \times 56.1 \times 2}{m}$$

where: A = volume of standard H_2SO_4 required for sample titration, mL

B = volume of standard H_2SO_4 required for blank titration, mL

c = concentration of sulphuric acid, mol/L

m = mass of specimen, g

6.2.4 ***Ash Content*** — Accurately determine the mass of approximately 1 g of sample into a tared 30 mL porcelain crucible. Heat gently to volatilize any water. Gradually increase the temperature, being careful to avoid boiling over and spattering. Finally, ignite to constant mass at 600°C. Cool in a desiccator and determine the mass.

$$\% \text{ ash} = \frac{100 \times a}{m}$$

where: a = mass of residue, g

m = mass of specimen, g

6.3 **Disclosure of Active Ingredient** – Unless otherwise specified by the authority applying this standard (par. 7.1) and in order to facilitate inspection, the manufacturer shall disclose to the testing authority the identity of the active ingredient.

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7. NOTES

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

a. Analyses, other than those specified, to determine if the material meets the requirements of this standard (par. 4.4)

b. Packaging, packing and marking details, if normal commercial practice is not suitable (par. 5.1)

c. Labelling, if other than as specified (par. 5.2)

d. If the identity of the active ingredient shall not be specified (par. 6.3).

7.2 **Intended Uses** — Material produced in accordance with this standard is intended for light-duty cleaning and laundering operations (e.g. routine mopping and scrubbing of floors and painted surfaces) and laundering of woollens and fine fabrics. For heavy-duty cleaning and laundering operations, the material is preferably used in conjunction with suitable alkaline builders (par. 5.2 and Note 1)

7.3 **Source of Referenced Publications** — 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 941-8704. Fax (613) 941-8705.

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Note 1: *See CAN/CGSB-2.34 for guidance on the choice of soaps and detergents.*