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Series 2

Série des 2

WITHDRAWAL

October 2016

Standards in series
Soaps and detergents

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RETRAIT

Octobre 2016

Normes de la série
Savons et détergents

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CAN/CGSB-2.55-97
Glass Cleaner (ICS 17.100.40)

CAN/CGSB-2.115-95
Built Powder Laundry Detergent (ICS 17.100.40)

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CAN/CGSB-2.55-97
Nettoyant pour verre (ICS 17.100.40)

CAN/CGSB-2.115-95
Détergent de blanchissage, en poudre, additionné d'adjuvants (ICS 17.100.40)

CORRIGENDUM

February 1997

CANADIAN GENERAL STANDARDS BOARD

BUILT POWDER LAUNDRY DETERGENT

4. DETAILED REQUIREMENTS

4.9 Sieve Analysis

At the end of the paragraph, change "93 μm sieve" to read "63 μm sieve."

RECTIFICATIF

Février 1997

OFFICE DES NORMES GÉNÉRALES DU CANADA

DÉTERGENT DE BLANCHISSAGE, EN POUDRE, ADDITIONNÉ D'ADJUVANTS

EXIGENCES PARTICULIÈRES

Analyse granulométrique

À la fin du paragraphe, remplacer «tamis de 93 μm» par «tamis de 63 μm».

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CAN/CGSB-2.115-95

Supersedes CAN/CGSB-2.115-M89

Built Powder Laundry Detergent

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.115-95

Supersedes CAN/CGSB-2.115-M89

BUILT POWDER LAUNDRY DETERGENT

The Canadian General Standards Board administers a Qualification Listing Program for products conforming to the requirements of this standard. Further information on the listing program is available from the Conformity Assessment Directorate of CGSB.

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Canadian General Standards Board CGSB

Approved by the
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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

BUILT POWDER LAUNDRY DETERGENT

1. SCOPE

1.1 This standard applies to a synthetic laundry detergent in granular or powder form based on surfactant and suitable builders and designed for laundering in all types of water.

1.2 This detergent is not recommended for use in mechanical dishwashers. It is recommended that the textile care labelling system (CAN/CGSB-86.1) be referred to for the laundering of textiles.

1.3 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)

CAN/CGSB-8.2 — Sieves, Testing, Woven Wire, Metric

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

2.1.2 Department of Consumer and Corporate Affairs

Principles and Guidelines for Environmental Labelling and Advertising.

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

3. GENERAL REQUIREMENTS

3.1 The synthetic detergent shall be a homogeneous material in granular or powder form, free from visible foreign matter.

3.2 The detergent shall have no injurious effect on the skin when used as directed.

3.3 The detergent shall be free from objectionable odour as received and when dissolved in hot water, and it shall not develop such odour in storage within twelve months of delivery.

3.4 When stored under normal conditions in the unopened manufacturer's shipping container for one year, the detergent shall remain uniform and show no caking that would seriously impair performance.

4. DETAILED REQUIREMENTS

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

4.2 **Composition** — The detergent shall contain the following: a surface-active agent, sodium silicate, an alkaline builder system, sodium carboxymethyl cellulose or other anti-redeposition agents with equivalent effect, and an optical brightener substantive on cellulosic, nylon, and acrylic materials. The following materials, while not mandatory, are not excluded: other sequestrants, dispersants, foam stabilizers, sodium sulphate, oxygen bleaches, perfumes, preservatives, anticaking agents, etc. (See par. 6.3 for certification of composition.) The material shall not contain soap.

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4.2.1 The surface-active components of the detergent shall consist of one of the following types of chemical compounds, or a mixture of two or more: anionics such as alkyl benzene sulphonate (linear type) having a molar mass not less than 340, or sodium primary alkyl sulphate having a molar mass of 300 to 370; nonionics such as ethoxylated linear fatty alcohols; sulphonated fatty amide having a molar mass of 350 to 430 (par. 6.3).

4.2.2 The alkaline builders shall include sodium silicate as specified in par. 4.6 and may also include any other available alkaline builders (including phosphates), provided that the formulation meets the legislative requirements for safety and protection of the environment and the following detailed requirements:

		Min.	Max.	Test Method
4.3	Total anhydrous salt-free detergents, % by mass	18	—	CAN/CGSB-2.11, Method 17.2
4.4	STPP and/or TSPP (as P_2O_5), % by mass	—	5.0	Par. 6.2.1
4.5	Total alkaline builders including silicate (as defined in par. 4.2.2), % by mass	35	—	Par. 6.3
4.6	Sodium silicate (as SiO_2), % by mass	6.0	—	CAN/CGSB-2.11, Method 24.1
4.7	Water insoluble, % by mass	—	1.0	CAN/CGSB-2.11, Method 10.2
4.8	pH (1% aqueous solution)	10.0	11.0	CAN/CGSB-2.11, Method 18.1

4.9 **Sieve Analysis** — When tested in accordance with CAN/CGSB-2.11, Method 16.2, 100% of the detergent shall pass through a 2000 µm sieve, and not more than 20% shall be retained on a 710 µm sieve and not more than 10% shall pass through a 93 µm sieve[1].

4.10 **Rinsing Properties** — When tested in accordance with CAN/CGSB-2.11, Method 31.1, the detergent shall be free-rinsing.

4.11 **Soap Content** — When tested in accordance in accordance with CAN/CGSB-2.11, Method 29.1, the detergent shall not contain soap.

4.12 **Optical Brightness** — When tested in accordance with CAN/CGSB-2.11, Method 40, the detergent shall appreciably increase the optical brightness on the fibres specified in par. 4.2.

5. PREPARATION FOR DELIVERY

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

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

CAUTION — It is advisable to wear protective gloves when cleaning requires prolonged or frequent exposure to this detergent, since it may cause skin irritation.

5.2.1 Any environmental claims and/or representations stated on the label shall follow the Department of Consumer and Corporate Affairs' Principles and Guidelines for Environmental Labelling and Advertising.

5.2.2 The labelling shall also indicate warnings and first aid instructions appropriate to the hazards and properties of the product in the event of eye contact and/or accidental ingestion.

6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CAN/CGSB-2.11, Method 1.2.

[1] *Use sieves conforming to CAN/CGSB-8.2.*

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6.2 **Sample Preparation** — The preparation of laboratory samples shall be as follows: riffle the detergent (using a set of riffles, e.g., Jones samplers) until it is approximately 250 mL in volume; grind this sample in a Waring blender or equivalent at high speed for 2 min; use portions of this ground product for testing.

6.2.1 ***STPP and/or TSPP (as P_2O_5)***

6.2.1.1 *Reagents*

Hydrochloric acid (HCl) — Reagent grade

Methanol — Reagent grade

Sodium hydroxide (NaOH) — 30% solution of reagent grade material prepared so as to be free of carbonates

Sodium hydroxide (NaOH) — 0.5 mol/L solution

6.2.1.2 *Procedure*

Accurately determine the mass of a representative specimen of approximately 2.5 g. Place it in a 150 mL porcelain evaporating dish and char it gently over a gas burner to expel the volatile matter. Transfer the dish with its contents to a muffle furnace operated at 550°C for 30 min. The ignited residue need not be free of carbon. Allow the specimen to cool and cautiously add 10 mL of concentrated HCl. Cover the specimen with a ribbed pyrex watch glass and evaporate to dryness, avoiding splattering. Treat the residue with 10 mL portions of a methanol-acid solution (10 parts of methanol + 1 part of concentrated HCl) and evaporate gently on a hot plate. Ignite the vapour. If borates are present, the flame will be a green colour. Continue adding the methanol-acid solution portions until the flame is a normal yellow colour. Evaporate to dryness, take up with 50 mL of distilled water and 10 mL of concentrated HCl, and transfer quantitatively to a 400 mL beaker. Make up the volume to about 300 mL with distilled water. Cover with a watch glass and boil gently for 60 min and cool. If necessary, dilute the specimen to 200 mL and titrate to a pH of 3.0 with a 30% NaOH solution. Cool again and adjust the pH to 4.3 with the 0.5 mol/L NaOH solution. Titrate carefully with the 0.5 mol/L NaOH solution from pH 4.3 to the upper end point (pH 8.8) recording the volume of NaOH required (T).

6.2.1.3 *Calculation*

Calculate the percentage by mass of P_2O_5 using the following equation:

$$\% P_2O_5 = \frac{Tc \times 7.098}{M}$$

where:

T = volume of NaOH solution required for the titration of the sample from the ower end point (pH 4.3) to the upper end point (pH 8.8), (mL)

c = concentration of NaOH solution (mol/L)

M = mass of the specimen (g)

6.3 **Certification of Composition** — To facilitate the inspection of products covered by this standard, the manufacturer shall provide the testing authority with a certified statement that the mandatory ingredients, specified in par. 4.2, 4.2.1 and 4.2.2, are present and that the minimum requirement specified in par. 4.5 is met. A method of analysis for par. 4.5 must also be supplied.

7. NOTES

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

a. Packaging and packing 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 the Department of Consumer and Corporate Affairs, Consumer Packaging and Labelling Section, Ottawa, Ontario K1A 0C9.

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