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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

CGSB ONGC

Canadian
General
Standards
Board

CAN/CGSB-2.47-94

Supersedes CAN/CGSB-2.47-M87

Toilet Bowl Cleaning Compound (Granular or Crystalline)

Withdrawn/Retirée

National Standard of Canada

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.47-94

Supersedes CAN/CGSB-2.47-M87

TOILET BOWL CLEANING COMPOUND
(Granular or Crystalline)

Withdrawn/Retiree

Prepared by the
Canadian General Standards Board CGSB

Approved by the
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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

TOILET BOWL CLEANING COMPOUND

(Granular or Crystalline)

Withdrawn/Retiree

1. SCOPE

1.1 This standard specifies the chemical requirements for a sodium bisulphate type compound used as a toilet bowl cleaner.

1.2 The material produced in accordance with this standard is intended for the removal of stains and discolourations from toilet bowls. It is not intended for use on bathtubs, washstands, sinks or other metal or enamelled fixtures.

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-2.11 — Methods of Sampling and Testing Soaps and Detergents

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

2.1.2 Department of Consumer and Corporate Affairs

Hazardous Products Act and Regulations.

2.1.3 Department of Consumer and Corporate Affairs

Principles and Guidelines for Environmental Labelling and Advertising.

2.2 Reference to the publications in par. 2.1.1 and 2.1.3 is to the latest issues, unless otherwise specified by the authority applying this standard. The sources of all above publications are shown in the Notes section.

3. GENERAL REQUIREMENTS

3.1 The compound shall be a uniform free-flowing product consisting mainly of sodium bisulphate crystals or granules (par. 7.1), and shall be free from foreign matter.

3.2 The compound shall not be caked in the container when received.

3.3 The compound shall be stable and not deteriorate in storage when kept in unopened containers at 0 to 40°C for a period of one year.

3.4 The compound shall not affect the surface of toilet bowls and urinals when used as directed.

3.5 The compound shall comply with any relevant Government Acts or Regulations.

4. DETAILED REQUIREMENTS

The compound shall have the following composition based on the sample as received:

		Min.	Max.	Test Method
4.1	Acidity (as H_2SO_4), % by mass	20.0	—	Par. 6.3
4.2	Moisture content, % by mass	—	1.5	CAN/CGSB-2.11 Method 13.1
4.3	Iron content, % by mass	—	0.15	Par. 6.4
4.4	Insoluble matter, % by mass	—	2.0	Par. 6.5
4.5	Particle size (Note 1)			CAN/CGSB-2.11 Method 16.2
	% retained on 4000 µm sieve	—	0	
	% retained on 710 µm sieve	25	—	
	% retained on 250 µm sieve	90	—	

4.6 **Surface-Active Agent** — The compound shall contain a surface-active agent to accelerate the cleaning action of the product. When tested in accordance with CAN/CGSB-2.11, Method 46.1, the surface tension of a 2% aqueous solution at 25°C shall not be greater than 35 mN/m.

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 representations shall follow Consumer and Corporate Affairs Canada's "Principles and Guidelines for Environmental Labelling and Advertising".

5.2.3 The supplier shall provide clear instructions covering the use of the compound, and these shall be permanently affixed to the outside of each container.

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

Date packaged

Form (crystals or granules)

Unit size (mass)

Standard number: CAN/CGSB-2.47-94

WARNING: This product is not to be mixed with other chemicals or cleaning compounds, including bleach.

6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CAN/CGSB-2.11, Method 1.5.

Note 1: Use sieves that meet the requirements of CAN/CGSB-8.2.

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

6.3 **Acidity** — Determine the mass of a nominal 10 g of the sample, then quickly dissolve and dilute to 500 mL with distilled water. With a pipette transfer a 50 mL aliquot to a 400 mL beaker, add 200 mL of distilled water and 2 drops of a 1% phenolphthalein indicator solution. Titrate to a distinct pink end-point with a standardized 0.2 mol/L sodium hydroxide solution. Calculate the acidity using the following equation:

$$\% \ H_2SO_4 = V \times 0.98$$

where: V = volume of NaOH used to neutralize the solution.

6.4 **Iron Content** — Dissolve 5 g of the sample in 60 mL of distilled water and add 20 mL of hydrochloric acid and boil gently for 10 min. Cool to room temperature and dilute to 100 mL. In the same way, prepare a reference standard containing 0.75 mg of iron. Dilute 10 mL of each solution to 50 mL and add 30 to 50 g of ammonium persulphate crystals, and 3 mL of ammonium thiocyanate reagent solution (prepared by dissolving 25 g of ammonium thiocyanate in distilled water to make 100 mL). Compare the two solutions. Any red colour in the specimen solution should not exceed that in the reference standard solution.

6.5 **Insoluble Matter** — To the nearest 0.1 mg, determine the mass of 50 g specimen and dissolve in 300 mL of hot distilled water (Note 2) in a 600 mL beaker. Allow the insoluble matter to settle, and filter by decanting through a tared Gooch crucible. Wash the insoluble matter into the crucible with more hot water. When the insoluble matter is completely filtered, place the crucible in an oven at 105 ± 5°C for 1 h. Cool in a desiccator to room temperature and determine the percent insoluble matter by using the following equation:

$$\text{percent insoluble matter} = \frac{\text{mass of residue (g)} \times 100}{\text{mass of specimen (g)}}$$

7. NOTES

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

a. Compound to be supplied in crystals or granules (par. 3.1)

b. 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 the Canada Communication Group, Publishing, Ottawa, Canada K1A 0S9. Telephone (819) 956-4800.

7.2.3. The publication referred to in par. 2.1.3 may be obtained from the Department of Consumer and Corporate Affairs, Consumer Packaging and Labelling Section, Ottawa, Canada K1A 0C9.

Note 2: Hot water is considered to be water between 50 to 100°C.

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