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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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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)

CORRIGENDUM

March 1997

CANADIAN GENERAL STANDARDS BOARD

SCOURING POWDER

7. INSPECTION

7.3 Testing

7.3.1 *Anhydrous Synthetic Detergent*

7.3.1.3 *Procedure*

Change the penultimate sentence to read as follows:

Bring the crucible and its content to a constant mass (M_3) by drying in the air oven at 105 ± 2°C.

RECTIFICATIF

Mars 1997

OFFICE DES NORMES GÉNÉRALES DU CANADA

POUDRE À RÉCURER

INSPECTION

Essais

Détergent synthétique anhydre

Mode opétatoire

Modifier l'avant-dernière phrase comme suit:

Amener le creuset et son contenu jusqu'à masse constante (M_3) par séchage dans une étuve à circulation d'air à 105 ± 2°C.

Withdrawn/Retirée

CGSB ONGC

Canadian
General
Standards
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CAN/CGSB-2.9-97

Supersedes CAN/CGSB-2.9-92

Scouring Powder

Withdrawn/Retirée

National Standard of Canada

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.9-97

Supersedes CAN/CGSB-2.9-92

SCOURING POWDER

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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

SCOURING POWDER

1. SCOPE

1.1 This standard states the requirements for mildly abrasive and heavy-duty scouring powders produced for housework use.

1.2 Type B scouring powder is primarily intended for use on enamel surfaces (e.g. sinks, bathtubs, stove tops), toilet bowls and urinals. It may also be used for cleaning kitchen utensils and equipment, and with caution, may occasionally be used on marble, glass, ceramic tile and terrazzo surfaces. Type C scouring powder is primarily intended for use on kitchen utensils with either metallic or enamelled surfaces, and it ***should never be used*** on other enamelled surfaces unless specifically recommended.

1.3 For more information on intended uses, see CAN/CGSB-2.34.

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-2.34 — Guide to the Selection and Use of Soaps and Detergents

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

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 2022 — Method for Sampling and Chemical Analysis of Chlorine-Containing Bleaches.

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. CLASSIFICATION

3.1 The scouring powder shall be supplied in the following types, as specified (par. 8.1):

3.1.1 ***Types***

Type B — Mildly abrasive (feldspar[1] or ground calcium carbonate)

Type C — Heavy-duty (siliceous).

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[1] *Feldspar is also known as potassium aluminosilicate.*

Withdrawn/Retirée

4. GENERAL REQUIREMENTS

4.1 The scouring powder shall consist of a surface-active agent, a builder, a finely divided abrasive and a bleaching agent.

4.2 The bleaching agent shall be chloroisocyanuric acid or chlorinated trisodium phosphate.

4.3 The scouring powder shall be free-flowing and uniform in composition.

4.4 The scouring powder shall be stable, and shall not lose its effectiveness nor otherwise deteriorate when stored in an unopened container for six months at temperatures between 10 and 38°C.

5. DETAILED REQUIREMENTS

The scouring powder shall comply with the following detailed requirements:

		Type B	Type C	Test Method	
				CGSB	ASTM
5.1	Free alkali, % by mass, max.	1.0	1.0	CAN/CGSB-2.11 Method 6.2	
5.2	Anhydrous, salt-free synthetic detergent, % by mass, min.	2.0	2.0	Par. 7.3.1	
5.3	Phosphates as P_2O_5, % by mass[2]			Par. 7.3.2	
	min.	1.5	1.5		
	max.	3.0	3.0		
5.4	Available-chlorine, % by mass, min.	0.3	0.3		D 2022
5.5	Insoluble matter, % by mass, min.	70.0	70.0	CAN/CGSB-2.11 Method 10.3	
5.6	Abrasion, max.[3]	Nil	—	CAN/CGSB-2.11 Method 15.1	
5.7	Sieve analysis of insoluble matter			Par. 7.3.3	
	% retained on a 250 µm sieve, max.[4]	0.2	0.2		
	% retained on a 125 µm sieve, max.	1.5	1.5		
	% retained on a 90 µm sieve, max.	3.0	3.0		
	% retained on a 45 µm sieve, max.	30.0	30.0		
5.8	pH, 25% solution, max.	12.0	12.0	CAN/CGSB-2.11 Method 18.1	

6. PREPARATION FOR DELIVERY

6.1 **Packaging, Packing and Marking** — Unless otherwise specified (par. 8.1), normal commercial packaging, packing and marking shall be acceptable.

6.2 **Labelling**

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

6.2.2 Environmental claims and/or representations shall follow the Industry Canada's "Principles and Guidelines for Environmental Labelling and Advertising."

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[2] *The phosphates may consist of trisodium phosphate, chlorinated trisodium phosphate, tetrasodium pyrophosphate, sodium tripolyphosphate or sodium hexametaphosphate.*

[3] *The abrasion requirement is not applicable to Type C compounds.*

[4] *See CAN/CGSB-8.2.*

Withdrawn/Retirée

6.2.3 In addition to complying with the labelling requirements of any relevant Government Acts and Regulations, each 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:

SCOURING POWDER

Manufacturer's or supplier's name
Date packaged
Type
Unit size (mass)
Standard number: CAN/CGSB-2.9-97.

7. INSPECTION

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

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

7.3 **Testing**

7.3.1 ***Anhydrous Synthetic Detergent***

7.3.1.1 *Reagent*

Neutral Ethanol (95%) — Freshly boiled ethanol, 95% or higher and neutral to phenolphthalein.

7.3.1.2 *Apparatus and Materials*

Balance — Analytical.

Steam Bath — With a support or holder for the 400 mL beakers and the porcelain or the platinum crucibles.

Drying Oven — An air oven capable of maintaining a temperature of 105 ± 2°C.

Normal Laboratory Glassware.

7.3.1.3 *Procedure* — Accurately determine the mass of about 10 g of the scouring powder (M_1), transfer to a 400 mL beaker and add approximately 200 mL of neutral ethanol. Digest on a steam bath until all the soluble matter is dissolved. Filter by suctioning the insoluble matter through a Gooch crucible. Thoroughly wash the residue in the crucible with hot ethanol (50 to 60°C). Retain the insoluble matter for the determination of phosphates (par. 7.3.2). Transfer the filtrate and washings to a tared porcelain or platinum crucible (M_2) and evaporate on a steam bath almost to dryness. Bring the crucible and its content to a constant mass (M_3) by drying in the air oven. Report the percentage of synthetic detergent as follows:

$$\% \text{ of synthetic detergent} = \frac{(M_3 - M_2)}{M_1} \times 100$$

where:

M_1 = mass of the specimen, g
M_2 = mass of the porcelain or the platinum crucible, g
M_3 = mass of the crucible and content, g

7.3.2 ***Phosphates***

7.3.2.1 *Reagents*

Magnesium Chloride ($MgCl_2 \cdot 6H_2O$) — American Chemical Society (A.C.S.) reagent grade.

Ammonium Chloride (NH_4Cl) — A.C.S. reagent grade.

Hydrochloric Acid (HCl) — Concentrated, A.C.S. reagent grade.

Ammonium Hydroxide (NH_4OH) — A.C.S. reagent grade.

Distilled Water.

Methyl Red Indicator (0.1% m/v) — Prepared by dissolving 0.1 g of the sodium salt directly in distilled water.

Withdrawn/Retirée

Magnesia Mixture Reagent — Prepared by dissolving 50 g of magnesium chloride and 100 g of ammonium chloride in 500 mL of distilled water. Add ammonium hydroxide in slight excess, allow the solution to stand overnight, and filter it. Make the solution just acid with hydrochloric acid, dilute to 1 L, and reserve for use in a stoppered bottle.

Hydrochloric Acid (1:1 Solution) — Prepared by mixing 1 part of concentrated hydrochloric acid, A.C.S. reagent grade with 1 part of distilled water.

Hydrochloric Acid (1:20 Solution) — Prepared by mixing 1 part of concentrated hydrochloric acid, A.C.S. reagent grade with 20 parts of distilled water.

Ammonium Hydroxide (1:1 Solution) — Prepared by mixing 1 part of the ammonium hydroxide, A.C.S. reagent grade with 1 part of distilled water.

Ammonium Hydroxide, (1:20 Solution) — Prepared by mixing 1 part of the ammonium hydroxide, A.C.S. reagent grade with 20 parts of distilled water.

7.3.2.2 *Apparatus and Materials*

Balance — Analytical.

Steam Bath — With a support or holder for the 400 mL beakers and the porcelain or the platinum crucibles.

Drying Oven — An air oven capable of maintaining a temperature of 105 ± 2°C.

Muffle Furnace — Capable of maintaining a temperature of 1000°C or higher.

Ice Bath.

Filter Paper — Whatman No. 1 or 41 filter paper, or equivalent.

Desiccator — A container or cabinet with the appropriate drying agent.

Normal Laboratory Glassware.

7.3.2.3 *Procedure* — Quantitatively extract the ethanol-insoluble residue (par. 7.3.1.3) with hot water to dissolve all the water-soluble portion. Filter by suctioning the water-insoluble matter through a Gooch crucible. Thoroughly wash the residue in the crucible with hot water and combine the filtrate and washings. Add 10 mL of concentrated nitric acid and boil for 10 min. Add 5 g of ammonium chloride, 25 mL of magnesia mixture reagent, and 1 or 2 drops of methyl red indicator. Cool the solution to 0 to 10°C in an ice bath. Slowly add the diluted ammonium hydroxide (1:1), while stirring vigorously with a rubber-tipped stirring rod so that the rubber tip contacts the bottom or sides of the beaker. When the precipitate of magnesium ammonium phosphate begins to appear, reduce the rate of addition of ammonium hydroxide and continue at such a rate until a crystalline precipitate is formed and precipitation appears to be completed. Add 15 mL of diluted (1:1) ammonium hydroxide in excess and allow the solution to stand for 4 h in an ice bath, or overnight at room temperature. While retaining the bulk of the precipitate in the beaker, decant the liquid through a filter paper/fluted funnel system. Wash a few times the filter paper with diluted (1:20) ammonium hydroxide. Dissolve any precipitate present on the filter in 25 mL of diluted (1:1) hydrochloric acid, catching the filtrate in the original beaker containing the bulk of the precipitate. Wash the filter paper thoroughly with diluted (1:20) hydrochloric acid and dilute the solution to 100 mL, add 2 mL of the magnesia mixture reagent, and reprecipitate. Filter and wash as previously and transfer the precipitate to the filter paper/fluted funnel system and wash thoroughly with distilled water. Transfer the precipitate and filter paper to a tared platinum or porcelain crucible (M_4) and place the platinum or the porcelain crucible and its content in the muffle furnace. Dry, and heat carefully until the paper chars without flaming. Burn off the carbon at the lowest possible temperature, then raise the temperature gradually to 950 to 1000°C, and ignite to a constant mass. Cool the ignited crucible and its content in a desiccator and determine the combined mass (M_5). Determine the mass of the precipitate as magnesium pyrophosphate ($Mg_2P_2O_7$) and calculate the percentage of phosphorous pentoxide (P_2O_5) in the specimen as follows:

$$\% \ P_2O_5 = \frac{[(M_5 - M_4) \times 0.6379]}{M_1} \times 100$$

where:

M_4 = mass of the porcelain or the platinum crucible, g
M_5 = mass of the crucible and the ignited precipitate, g
M_1 = mass of the specimen, g

7.3.3 ***Sieve Analysis of Insoluble Matter*** — Stir a 50 g sample with 200 mL of water sufficiently to dissolve all soluble matter. Wash it onto a bank of the specified sieves. Thoroughly wash the residue on each sieve with a spray nozzle. After drying, determine the mass of the residue on each sieve and calculate the result as the percentage of insoluble matter.

Withdrawn/Retirée

8. NOTES

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

a. Type of scouring powder (par. 3.1)

b. Packaging, packing and marking details, if normal commercial practice is not suitable (par. 6.1).

8.2 **Sources of Referenced Publications**

8.2.1 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.

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

8.2.3 The publication 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., or from the Standards Council of Canada, Standard Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7.

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où:

M_4 = masse du creuset en porcelaine ou en platine, g
M_5 = masse du creuset et du précipité calciné, g
M_1 = Masse de l'échantillon, g

7.3.3 ***Analyse granulométrique de la matière insoluble*** — Agiter un échantillon de 50 g dans 200 mL d'eau suffisamment pour dissoudre toute la matière soluble. Laver avec de l'eau sur les tamis prescrits montés en colonne. Bien laver le résidu sur chaque tamis avec un gicleur. Après le séchage, déterminer la masse du résidu sur chaque tamis et calculer le résultat en pourcentage de matière insoluble.

8. REMARQUES

8.1 **Options** — Les options suivantes doivent être précisées lors de l'application de la présente norme:

a. Type de poudre à récurer (par. 3.1)

b. Modalités de conditionnement, d'emballage et de marquage si les usages commerciaux courants ne conviennent pas (par. 6.1).

8.2 **Sources de diffusion des publications de référence**

8.2.1 Les publications mentionnées à l'al. 2.1.1 sont diffusées par l'Office des normes générales du Canada, Centre des ventes, Ottawa, Canada K1A 1G6. Téléphone (613) 941-8703 ou 1-800-665-CGSB (Canada seulement). Télécopieur (613) 941-8705.

8.2.2 La publication mentionnée à l'al. 2.1.2 est diffusée par Industrie Canada, Section de l'emballage et de l'étiquetage des produits de consommation, Ottawa, Canada K1A 0C9.

8.2.3 La publication mentionnée à l'al. 2.1.3 est diffusée par l'American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A., ou par le Conseil canadien des normes, Direction de la vente des normes, 45, rue O'Connor, bureau 1200, Ottawa, Ontario K1P 6N7.

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