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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

Le Conseil canadien des normes exige que les organismes accrédités d'élaboration de normes, tel que l'ONGC, effectue régulièrement un examen des normes consensuelles afin de déterminer s'il y a lieu d'en renouveler l'approbation, de les réviser ou de les retirer. Le cycle d'examen d'une norme est généralement de cinq ans à partir de la date de publication de la dernière édition de celle-ci.

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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-2.141-92

Supersedes 2-GP-141Ma

General-Purpose Powder Cleaning Compound



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Canadian General Standards Board

CGSB

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.141-92

Supersedes 2-GP-141Ma
December 1984

GENERAL-PURPOSE POWDER CLEANING COMPOUND

Withdrawn/Retiree

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 Quality Certification Branch of CGSB.

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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.

CAN/CGSB-2.141-92

Supersedes 2-GP-141Ma
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CANADIAN GENERAL STANDARDS BOARD

GENERAL-PURPOSE POWDER CLEANING COMPOUND

1. SCOPE

1.1 This standard states requirements for a general-purpose cleaning powder compound consisting of a mixture of phosphates, sodium carbonate and surface-active agent.

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

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)

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

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

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 cleaning compound shall be a uniform, homogeneous, free-flowing product, free from objectionable odour and abrasives.

3.2 It shall be completely soluble in water.

3.3 When held under normal conditions of storage in unopened containers or packages, the compound shall remain stable and effective for at least two years.

3.4 In solution, the compound shall be low-sudsing and shall require no rinsing or wiping dry.

3.5 In solution, the compound shall not be injurious to painted, enameled or varnished surfaces and shall be effective in removing dirt, grime and grease from walls, floors and woodwork.

3.6 The surface-active component of the material shall be biodegradable.

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4. DETAILED REQUIREMENTS

The compound shall comply with the following detailed requirements:

		Min.	Max.	Test Method
4.1	Requirements of the compound as received			
4.1.1	Volatile matter, % by mass	—	38.0	2-GP-11/13.1
4.1.2	Sieve analysis, % by mass passing a 710 µm sieve (Note 1)	85	—	2-GP-11/16.2
4.1.3	pH value (of 1% solution)	10.0	11.5	2-GP-11/18.1
4.2	Requirements of the compound on a dry basis			
4.2.1	Surface-active agent, % by mass	1.0	10.0	Par. 6.3
4.2.2	Water-insoluble matter, % by mass	—	0.1	Par. 6.4
4.2.3	Phosphates (as P_2O_5), % by mass	10.0	17.5	Par. 6.5
4.2.4	Carbonates (as Na_2CO_3), % by mass	—	60	Par. 6.5
4.2.5	Free alkali (as NaOH), % by mass	—	0.1	Par. 6.6
4.2.6	Total alkalinity (as Na_2O), % by mass	8.0	—	Par. 6.7

4.3 **Rinsing Properties** — When tested in accordance with CGSB standard 2-GP-11, Method 31.2, a 2% solution (2 volumes of the compound in 98 volumes of synthetic hard water (300 mg/L) of the cleaner shall be free rinsing (Note 2).

5. PREPARATION FOR DELIVERY

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

5.2 **Labelling** — The label must also include the following information:

CAUTION: It is advisable to wear protective gloves where the cleaning operation requires prolonged and/or frequent exposure to this detergent compound, since it may cause skin irritation.

6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 2-GP-11, Method 1.2.

6.2 **Preparation of Samples** — Preparation of the samples in the laboratory shall be carried out in accordance with CGSB standard 2-GP-11, Method 2.

6.3 **Testing**

6.3.1 ***Surface-active Agent*** — Accurately weigh approximately 10 g of the material, pre-dried to constant mass (Note 3) at 105 ± 2°C, in a 400 mL beaker and digest with 200 mL isopropanol (99%) on a steam bath until all soluble matter is dissolved. Filter off the insoluble matter and wash well with isopropanol at 50 to 60°C. Retain the residue for determination of water-insoluble matter (par. 6.3.2) and phosphates and carbonates (par. 6.3.3). Transfer the filtrate and washings to a tared porcelain or platinum dish, evaporate on a steam bath almost to dryness, dry to constant mass in an air oven at 105 ± 2°C. Calculate the percent residue and report as percent surface active agent (dry basis).

6.3.2 ***Water-insoluble Matter*** — Quantitatively extract the isopropanol-insoluble residue from the determination of the surface active agent (par. 6.3.1) with hot water to dissolve the water-soluble material. Filter off the water-insoluble

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Note 1: *CAN/CGSB-8.2, Sieves, Testing, Woven Wire, Metric.*

Note 2: *The synthetic hard water is prepared by adding* 353 mg *of calcium acetate* ($Ca(C_2H_3O_2)_2 \cdot H_2O$) *and* 246 mg *of magnesium sulphate* ($MgSO_4 \cdot 7H_2O$) *to sufficient distilled water to make one litre.*

Note 3: *Constant mass is attained when successive heatings for a* 1 h *period show a loss (or gain) of not more than 0.1%.*

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matter through a tared Gooch crucible, washing well with hot water. Retain the filtrate and the washings. Dry the residue to constant mass at 105 ± 2°C. Report the residue as percent water-insoluble matter (dry basis).

6.3.3 ***Phosphates and Carbonates*** — Combine the filtrate and washings from par. 6.3.2 and make up to 500 mL in a volumetric flask. Use 50 mL aliquots and acidify with dilute hydrochloric acid for the determination of phosphates as described in CGSB standard 2-GP-11, Method 25.1 and 50 mL aliquots for the determination of carbonates as described in 2-GP-11, Method 26.1. Report the percent phosphates and carbonates.

6.3.4 ***Free Alkali***

6.3.4.1 *Reagents*

a. Neutral ethanol — freshly boiled ethanol, 95% or higher and neutral to phenolphthalein

b. Hydrochloric Acid 0.01 mol/L — accurately standardized

c. Phenolphthalein indicator — 1% solution in neutral ethanol (95%).

6.3.4.2 *Procedure* — Accurately weigh approximately 8 g of the sample and dry to constant mass at 105 ± 2°C. Transfer the weighed dried sample to a 250 mL beaker. Add about 100 mL of hot, neutral 95% ethanol and boil for 10 min, stirring well to dissolve soluble matter. Filter the solution through a Gooch crucible and wash the residue with two 25 mL portions of neutral 95% ethanol. Heat the combined filtrate and washings to incipient boiling. Add 0.5 mL phenolphthalein indicator solution and titrate with the standard acid using a microburette. Calculate the percent free alkali as follows:

$$\text{Percent free alkali (as NaOH)} = \frac{v \times c \times 4}{\text{mass of dried sample}}$$

where: v = mL of acid used in titration

c = accurate concentration of acid in moles per litre.

6.3.5 ***Total Alkalinity*** — Determine to the nearest 0.1 mg, the mass of approximately 2 g of sample pre-dried to a constant mass at 105 ± 2°C. Transfer to a 400 mL beaker, add 200 mL of distilled water and 2 to 3 drops of methyl orange indicator. Titrate with 0.5 mol/L hydrochloric acid and calculate the total alkalinity as follows:

$$\text{Total alkalinity (\% } Na_2O\text{) (as NaOH)} = \frac{v \times c \times 3.1}{\text{mass of dried sample}}$$

where: v = volume of acid used in titration (mL)

c = accurate concentration of acid in moles per litre.

7. NOTES

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

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

7.2 **Intended Uses** — The cleaning compound covered by this standard is intended for use in heavy-duty cleaning operations. It is not intended for use in cleaning operations where abrasive-type compounds are normally required. This product is generally used for removing soil from painted surfaces, ceilings and equipment. It is applied with a cloth, mop, sponge or brush, as a solution prepared with either soft or hard water. THIS MATERIAL SHOULD NOT BE USED ON ALUMINUM OR AIRCRAFT SURFACES. It is not intended for routine maintenance of floors, but can be used occasionally to remove soil. It is not intended for use in laundering. See CAN/CGSB-2.34 for guidance on the selection of soaps and detergents.

CAUTION: Material produced to this standard must not be used on terrazzo floors or wood floors that have not been properly sealed.

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 KlA 1G6. Telephone (613) 941-8703 or (613) 941-8704. Fax (613) 941-8705.

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