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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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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)

CAN/CGSB-2.16-94

Supersedes CAN/CGSB-2.16-M90

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Standards
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Waterless Hand Cleaner

Withdrawn/Retirée

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.16-94

Supersedes CAN/CGSB-2.16-M90

WATERLESS HAND CLEANER

Withdrawn/Retirée

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Canadian General Standards Board

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

WATERLESS HAND CLEANER

1. SCOPE

1.1 This standard specifies the physical and chemical characteristics of a hand cleaner being used with or without water.

1.2 Hand cleaners produced to this standard are intended to remove heavy soilings such as oil, grease, grime, fresh paint, etc., from the skin. Excess soiling should be removed from the hands by wiping before applying the cleaner. It is also recommended that the skin of the user should be thoroughly washed as soon as possible, when released soiling and cleaner is wiped off with paper towels or cloths. Residues of soiling, soaps, solvents, detergents, etc., left on the skin for any significant length of time can irritate the skin. In areas where contamination from abrasive particles may cause problems the use of class B abrasive hand cleaner shall be restricted.

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.

2.1.2 American Society for Testing and Materials (ASTM)

D 93 — Test Method for Flash and Fire Points by Pensky-Martens Closed Cup

D 217 — Test Method for Cone Penetration of Lubricating Grease.

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. CLASSIFICATION

3.1 The hand cleaner shall be supplied in the following types and classes, as specified (par. 8.1):

3.1.1 ***Types***

Type 1 — Contains petroleum distillate solvents

Type 2 — Free of petroleum distillate solvents

3.1.2 ***Classes***

Class A — Non-abrasive

Class B — Mildly abrasive.

4. GENERAL REQUIREMENTS

4.1 The hand cleaner shall comply with the relevant portions of any Government Act or Regulations (e.g. The Food and Drug Act, The Hazardous Products Act, Cosmetic Regulations).

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4.2 **Composition**

4.2.1 Type 1 hand cleaner shall contain petroleum distillate (aliphatic hydrocarbon) solvents, water, emulsifiers and a suitable humectant.

4.2.2 Type 2 hand cleaner shall not contain petroleum distillate solvents and may contain water, emulsifiers and a suitable humectant.

4.2.3 The abrasive used for class B hand cleaner shall be one of the following:

a. Pumice

b. Siliceous compounds

c. Plastic granules (including polyethylene, polypropylene and polyvinyl chloride).

4.3 The hand cleaner may be lightly scented with a perfume that complies with Government Acts and Regulations. The perfume shall not be used to mask offensive solvent or mineral oil odours.

4.4 The hand cleaner shall not leave strong or offensive odours on the hands after use.

4.5 The hand cleaner shall not contain free alkaline or other substances that may irritate the skin when used as intended. It shall not leave the skin excessively dry or greasy after use.

4.6 When stored in the original, unopened container at temperatures between 4 and 40°C, the hand cleaner shall comply with the requirements of this standard for at least one year after the date of manufacture.

4.7 The hand cleaner shall be in the form of an homogeneous thick non-mobile cream or gel, or a thick mobile lotion, as specified (par. 8.1).

5. DETAILED REQUIREMENTS

The hand cleaner shall comply with the following detailed requirements:

		TYPE 1		TYPE 2		
		Min.	Max.	Min.	Max.	Test Method
5.1	Water and humectant, % by mass		75		85	Par. 7.2.5
5.2	Distillate solvents other than water					
5.2.1	Petroleum distillate solvents, % by mass	25	50	—	N/A	Par. 7.2.5
5.2.2	Non-petroleum distillate solvents, % by mass		N/A		1.0	Par. 7.2.5
5.3	Abrasive for Class B only, % by mass	2.0	12	2.0	12	Par. 7.2.5
5.3.1	Abrasive-particle size, µm					
	Pumice	50	400	50	400	
	Siliceous compounds	50	400	50	400	
	Plastic granules	50	600	50	600	
5.4	Flash point, °C	40	—	—	N/A	ASTM D 93
5.5	pH value (as received)	7.0	10.0	5.0	10.0	Par. 7.2.6

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5.6 **Consistency**

5.6.1 When tested in accordance with ASTM D 217, a hand cleaner with the consistency of a thick non-mobile cream or gel shall show an unworked or an undisturbed penetration of 23 to 35 mm when measured at 25°C under a total load of 150 ± 0.05 g for 5 s using a "Precision" Junior Penetrometer (Note 1) or equivalent. (It shall be specified if the test for consistency was performed on an unworked or an undisturbed sample.)

5.6.2 A hand cleaner with the consistency of a thick mobile lotion, when measured at 25°C, using a Brookfield Viscometer (Note 2), with a #4 or #5 spindle at 20 r/min, shall have a viscosity no less than 4500 mPa·s.

5.7 **Heat Stability** — The hand cleaner shall not show separation of any components, when tested in accordance with par. 7.2.1.

5.8 **Freeze-Thaw Stability** — After being subjected to freeze-thaw cycles in accordance with par. 7.2.2, the hand cleaner shall not show any separation of its components within 48 h after returning to ambient temperature.

5.9 **Hot Water Stability** — The hand cleaner shall not show any visible separation of free oils, when tested in accordance with par. 7.2.3.

5.10 **Dermal Properties** — The hand cleaner shall leave the hands clean and free of strong or offensive odours, skin irritation and dryness as specified in par. 4.3, 4.4 and 4.5.

5.11 **Abrasives** (Optional, par. 8.1) — When tested in accordance with par. 7.2.4, a class A hand cleaner shall be free of abrasives, and the abrasives contained in class B hand cleaner shall meet the requirements of par. 5.3.1.

6. PREPARATION FOR DELIVERY

6.1 **Packaging** — The hand cleaner shall be packaged in suitably treated or lined unbreakable containers, unaffected by the ingredients, of a size or sizes as specified (par. 8.1). Metal and fibre containers up to and including 1 kg size shall have a taped slip-on or 1/4-turn screw-on lug-type lid or pull-top composite cans with plastic lids. Containers over 1 kg size shall have either a taped slip-on or a friction-type lid. Plastic containers shall have screw-type, leak-proof lids or caps.

6.2 **Labelling, Packing and Marking** — Unless otherwise specified (par. 8.1), normal commercial labelling, packing and marking shall be acceptable.

7. INSPECTION

7.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 2-GP-11, Method 1.4.

7.2 **Test Methods**

7.2.1 ***Heat Stability*** — Fill 3/4 of a 100-125 mL glass jar with the sample hand cleaner. Close the jar and maintain it at 40 ± 1°C for 72 h.

7.2.2 ***Freeze-Thaw Stability*** — Fill 3/4 of a 100-125 mL glass jar with the sample hand cleaner. Close the jar and place it in a low-temperature cabinet maintained at –8 to –12°C for 24 h. Remove the sample from the cabinet and allow it to thaw for 24 h at 21 to 24°C. Repeat twice and examine for separation.

7.2.3 ***Hot Water Stability*** — Place 25 g of hand cleaner in a suitable glass container. Add to the product 75 g of hot tap water, at a temperature of 50 ± 1°C, and mix with a 3 mm diameter glass stirring rod for a period of 1 min. Allow the mixture to stand for 5 min. Examine the mixture for signs of separation of free oils.

7.2.4 ***Abrasive*** — The particle size of the abrasive shall be determined by standard sieve analysis (Note 3) prior to its addition to the hand cleaner during production.

7.2.5 ***Certification*** — For inspection purposes, the manufacturer shall provide the testing authority with a certified statement that the mandatory ingredients specified in par. 5.1, 5.2 and 5.3 are present and that they comply with the minimum requirements of this standard.

Note 1: Available from VWR Scientific Canada Ltd., 77 Enterprise Drive N., London, Ontario N6N 1A5.
Note 2: Available from Can Am Instruments, 1938 Matawa Avenue, Mississauga, Ontario.
Note 3: CAN/CGSB-8.2.

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7.2.6 ***pH value*** — The pH shall be measured on the sample as received with a narrow-range pH paper.

8. NOTES

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

a. Type and class of hand cleaner (par. 3.1)

b. Form of the hand cleaner (par. 4.7)

c. If the test for particle size is to be performed (par. 5.11)

d. Size of container (par. 6.1)

e. Labelling, packing and marking details, if normal commercial practice is not suitable (par. 6.2)

f. Colour of the hand cleaner.

8.2 **Sources of Referenced Publications**

8.2.1 The publication 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 publications referred to in par. 2.1.2 may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, U.S.A., or photocopies are available from the CGSB Sales Centre (par. 8.2.1).

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