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Canadian General
Standards Board Office des normes
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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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

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Février 2012

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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)

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Nettoie-mains employé sans eau (ICS 71.100.70)

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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)



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CAN/CGSB-2.1-96

Supersedes CAN/CGSB-2.1-M89

Skin Cleaning Lotion

Withdrawn/Retirée



National Standard of Canada

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SKIN CLEANING LOTION

Prepared by the
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Approved by the
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CANADIAN GENERAL STANDARDS BOARD

SKIN CLEANING LOTION

1. SCOPE

- 1.1 This standard specifies requirements for three types of skin cleaning lotion, suitable for removing light to medium soiling from the skin.
- 1.2 Skin cleaning lotion produced to this standard is intended for use in dispensers for public, domestic and industrial purposes in washrooms, bathrooms and showers. See CAN/CGSB-2.34 for guidance on the choice of soaps and detergents.
- 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 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.
- 2.1.2 Industry Canada (IC)
Principles and Guidelines for Environmental Labelling and Advertising.
- 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 skin cleaning lotion shall be supplied in the following types, as specified (par. 8.1):
- 3.1.1 *Types*
Type 1 — A liquid soap prepared from suitable vegetable oils thoroughly saponified with potassium hydroxide.
Type 2 — A product prepared from anionic, nonionic or amphoteric surfactants or their blends.
Type 3 — A product prepared from vegetable oils saponified with potassium hydroxide and blended with surfactants.

4. GENERAL REQUIREMENTS

- 4.1 The skin cleaning lotion shall comply with the relevant portions of any Government Acts or Regulations (e.g. The Food and Drugs Act).
- 4.2 The product shall be a clear homogeneous solution or be modified to give an opaque, opalescent appearance.
- 4.3 The product shall be free from objectionable odour, both as received and when dissolved in hot water (43°C).
- 4.4 A fragrance may be present in the skin cleaning lotion, as specified (par. 8.1).

- 4.5 The product shall not contain visible foreign matter.
- 4.6 The product shall provide good lathering and cleaning properties in hard water.
- 4.7 The ingredients contained in the formula shall be safe for use on normal human skin when used in accordance with the manufacturer's instructions.
- 4.8 When stored in the original, unopened container at temperatures ranging between 4 and 38°C, the product shall comply with the requirements of this standard for at least one year after the date of delivery.

5. DETAILED REQUIREMENTS

The skin cleaning lotion shall comply with the following detailed requirements:

		Type 1		Type 2		Type 3		Test Method CAN/CGSB-2.11
		Min.	Max.	Min.	Max.	Min.	Max.	
5.1	Anhydrous soap, % by mass ¹	15.0	—	—	nil	10.0	—	Method 3.1
5.2	Alcohol insoluble, % by mass	—	0.1	—	5.0	—	5.0	Method 9.1
5.3	Free alkali (as KOH), % by mass	—	0.1	—	—	—	0.1	Method 6.1
5.4	Free fatty acid (as Oleic), % by mass	—	0.1	—	—	—	0.1	Method 6.1
5.5	Acid number of fatty acid	170	—	—	—	170	—	Method 3.1
5.6	Anhydrous salt-free detergent, % by mass	—	—	7.0	—	1.0	8.0	Method 17.2
5.7	Rosin, % by mass	—	1.0	—	—	—	1.0	Method 5.2
5.8	pH (5% solution) at 25°C	9.0	10.5	4.8	7.5	9.0	10.5	Method 18.1
5.9	Water and volatile matter, % by mass	—	85.0	—	—	—	89.0	Method 13.1
5.10	Viscosity at 20°C, mPa·s	—	1 000	500	5 000	500	5 000	Par. 7.2.1
5.11	Low-Temperature Stability — The skin cleaning lotion shall be homogeneous and shall show no evidence of separation when tested in accordance with par. 7.3.2.							
5.12	Anticlogging — The skin cleaning lotion shall not form a skin on the surface when tested in accordance with par. 7.3.3.							
5.13	Dermal Properties — The skin cleaning lotion shall leave the hands clean and free of strong smelling or offensive odours, skin irritation and dryness as specified in par. 4.3 and 4.7.							
5.14	Stability in Hard Water — When tested in accordance with par. 7.3.4, a minimum of 70% foam volume shall be sustained.							
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.							

¹ In the determination of anhydrous soap specified in the detailed requirements, the results shall be expressed on the basis of the sample as received. All other determinations, except for acid number, viscosity and pH, shall be pro-rated in direct proportion on the basis of a 15% anhydrous soap content for Type 1 and 10% anhydrous soap content for Type 3.

6.2 Labelling

6.2.1 In addition to complying with the labelling requirements of any Government Acts and Regulations, each container shall be suitably labelled to show the following information:

- Name or trade name of the product
- Address of the manufacturer or distributor of the product
- Date packaged
- Unit size (volume)
- Standard number: CAN/CGSB-2.1-96
- Instructions for use
- The statement "Keep from freezing" or "Protect from frost."

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

7. INSPECTION

7.1 **Sampling** — Sampling shall be carried out in accordance with CAN/CGSB-2.11, Method 1.3.

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

7.3 Testing

7.3.1 Viscosity

7.3.1.1 **Procedure** — Place 300 mL of the skin cleaning lotion in a 400 mL beaker and allow it to attain a temperature of 20°C. Ensure that the sample is air-free and measure the viscosity with a Brookfield Synchro-lectric Viscometer, Model LVF, LVT or RVF, with the following spindle and shear rate:

Model LVF or LVT	Spindle No.	Shear Rate	Viscosity Range 20°C, mPa·s
Skin Cleaning Lotion Type 1, 2, and 3	1	30	0–100
	2	12	500–1 500
		6	1 500–3 000
	3	12	3 000–5 000

Model RVF	Spindle No.	Shear Rate	Viscosity Range 20°C, mPa·s
Skin Cleaning Lotion Type 1, 2, and 3	1	20	0–100
	2	20	500–1 500
		10	1 500–3 000
		4	3 000–5 000
	4	20	2 000–5 000

7.3.2 **Low-Temperature Stability** — Fill 3/4 full a 100 mL to 225 mL glass jar with a specimen of the skin cleaning lotion. Close the jar and maintain it at 0°C for 24 h, and then allow it to return to room temperature. Examine for separation.

7.3.3 **Anticlogging** — Leave 250 mL of the product in an open 400 mL beaker for 4 h at 23 ± 2°C and 50 ± 10% RH, in a draft-free environment. Examine it for any skinning on the surface.

- 7.3.4 **Stability in Hard Water** — Repeat the test three times and report the average. Dissolve 1.0 g of the skin cleaning lotion in 100 mL of distilled water at 25°C. Add 40 mL of this solution and 10 mL of hard water² to a clean, dry 250 mL stoppered graduated cylinder. Shake the cylinder vigorously 50 times within 20 s. Record the foam volume after the foam has stabilized (30 s). Record the foam volume again after 4 min. Calculate the percentage of foam volume sustained according to the following formula:

$$\% \text{ foam sustained} = \frac{F_2}{F_1} \times 100$$

where:

F_1 = foam volume after 30 s

F_2 = foam volume after 4 min

8. NOTES

8.1 Options

- 8.1.1 The following options must be specified in the application of this standard:
- Type of product (par. 3.1)
 - Fragrance (par. 4.4)
 - Packaging, packing and marking details, if other than normal commercial practice (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.

² Hard water (300 mg/L as CaCO_3) — Prepared by dissolving 0.353 g of calcium acetate ($\text{Ca}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$) and 0.246 g of magnesium sulphate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) to sufficient distilled water to make one litre.