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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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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.

Des copies archivées des normes retirées peuvent être obtenues à des fins historiques ou archivistiques auprès du Centre des ventes de l'ONGC. Il suffit d'en faire la demande par téléphone au 819-956-0425 ou 1-800-665-2472, par télécopieur au 819-956-5740, par Internet à : www.tpsgc-pwgsc.gc.ca/ongc-cgsb/, par courriel à ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca, ou par courrier adressé au Centre des ventes, Office des normes générales du Canada, 11, rue Laurier, Gatineau, Canada K1A 1G6.

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)

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CAN/CGSB-2.42-97

Supersedes CAN/CGSB-2.42-92

Stain Remover for Tableware

Withdrawn/Retirée

National Standard of Canada

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.42-97

Supersedes CAN/CGSB-2.42-92

STAIN REMOVER FOR TABLEWARE

Withdrawn/Retiree

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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 Public Works and Government Services Canada.

CANADIAN GENERAL STANDARDS BOARD

STAIN REMOVER FOR TABLEWARE

1. SCOPE

1.1 This standard specifies the physical and chemical requirements for a stain remover used in hard or soft water to remove coffee, tea and other adsorbed food stains, primarily from plastic tableware, by immersion.

1.2 The stain remover may also be used on glass and china tableware, although it is not intended for this purpose. It may also be used to remove stains from coffee urns, except those made of aluminum. Due to its tendency to deteriorate and lose oxygen in storage, it is advisable not to purchase more than a six month supply at a time.

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.

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. GENERAL REQUIREMENTS

3.1 The stain remover shall be a uniform, free-flowing, stable, granular or powdered material.

3.2 It shall be free from objectionable odour either in dry form or in solution.

4. DETAILED REQUIREMENTS

The stain remover shall comply with the following detailed requirements:

		Min.	Max.	Test Method
4.1	Chlorine	Nil	Nil	Par. 6.3.1
4.2	Active Oxygen, %	4.5	—	Par. 6.3.2
4.3	pH, 2% solution, at 25°C	10.5	12.0	CAN/CGSB-2.11 Method 18.1
4.4	Soap Content	Nil	Nil	Par. 6.3.3
4.5	Water Insoluble Matter, % by mass	—	1	CAN/CGSB-2.11 Method 10.4

4.6 **Solution Stability** — When tested in accordance with par. 6.3.4, a 5.0% distilled water solution of the stain remover shall not lose more than 30.0% of its initial active oxygen when held at 80°C for 3 h.

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4.7 **Stability in Dry Form** — When tested in accordance with par. 6.3.5, the stain remover shall not lose more than 10% of its original active oxygen when held at 70 ± 1°C for 24 h.

4.8 **Storage Stability** — When tested in accordance with par. 6.3.6, the stain remover shall not lose more than 10% of its original active oxygen when stored in an unopened container for six months at temperatures between 20 to 30°C.

5. PREPARATION FOR DELIVERY

5.1 **Packaging** — The stain remover shall be packaged in hermetically sealed containers capable of being resealed once opened.

5.2 **Packing and Marking** — Unless otherwise specified (par. 7.1), normal commercial packing and marking shall be acceptable.

5.3 **Labelling**

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

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

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

STAIN REMOVER FOR TABLEWARE
Manufacturer's or supplier's name
Date packaged
Expiry date when stored under normal conditions (20-30°C)
Unit size (volume)
Standard number: CAN/CGSB-2.42-97.

Directions for Use:

This product is primarily designed to remove beverage and other adsorbed food stains from plastic tableware by a simple soaking immersion.

1. All items to be destained should be pre-rinsed clean before immersion.
2. Soaking tanks for destaining may be sinks, steel or porcelain tubs, or similar containers. Aluminum equipment should not be used.
3. For moderately to very heavily stained pieces, dissolve the stain remover in the ratio of 20 g/L of tap water maintained at a minimum temperature of 60°C. The stain remover should be added to the water and not the reverse, to cut down undesirable foaming. Soak the pieces until destained (15 min to 1 h or longer). Additional soaking is not harmful. Precautions should be taken to prevent "nesting" of the tableware in the soaking tank.
4. For lightly stained tableware the amount of stain remover may be reduced to 6-7 g/L.
5. The solution may be reused until it becomes ineffective.
6. Wash tableware thoroughly after destaining.

Warning:

1. Do not use this stain remover on aluminumware.
2. Steel wool or other abrasives should never be used on plastic tableware.
3. Old stocks of stain remover should be used before new containers are opened.
4. The stain remover should not be left open to the atmosphere, particularly in bulk containers.

5.3.4 Reference to the standard on the label shall be to the latest issue.

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6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CAN/CGSB-2.11, Method 1.2 or 1.6.

6.2 **Preparation of Samples** — The preparation of laboratory samples shall be carried out in accordance with CAN/CGSB-2.11, Method 2 (except as noted in par. 6.2.1).

6.2.1 Before making the required analysis, the stain remover shall be thoroughly mixed in a tumbler mixer for 30 min. It is extremely important that all of the ingredients be uniformly distributed in the samples subsequently used in several of the tests.

6.3 **Testing**

6.3.1 ***Chlorine-Releasing Compounds*** — Sprinkle a small quantity of the stain remover on a strip of wet potassium-iodide-starch paper. The appearance of a blue-black colour on the paper indicates the presence of free chlorine.

6.3.2 ***Active Oxygen***

6.3.2.1 *Apparatus and Reagents*

Analytical Balance — Capable of determining the mass to 0.1 mg.

Normal Laboratory Glassware

Concentrated Sulphuric Acid, (H_2SO_4) — ACS (American Chemical Society) Reagent Grade.

10% v/v Sulphuric Acid Solution — Prepared by adding 1 part of concentrated sulphuric acid to 9 parts of distilled water.

Potassium Permanganate, ($KMnO_4$), Crystal — ACS Reagent Grade.

Potassium Permanganate, ($KMnO_4$), 0.02 mol/L Solution — Prepared by dissolving 3.2 g of potassium permanganate crystal in about 1 L of distilled water. Heat to boiling and keep hot for about 1 h. Cover and let stand overnight. Filter the solution through a fine-porosity sintered glass crucible or through a Gooch crucible with an asbestos mat. Store the solution in a clean, amber glass-stoppered bottle and keep in the dark when not in use. Prior to use, standardize the potassium permanganate solution against sodium oxalate or other primary standards.

6.3.2.2 *Procedure* — Accurately (to the nearest mg) determine the mass of about 4 g of the sample. Transfer into a 400 mL beaker and dissolve in 250 mL of distilled water. Transfer the solution to a 500 mL volumetric flask. Rinse the beaker several times with small portions of the 10% sulphuric acid solution. Transfer all the rinsings to the flask. Fill the flask to the mark with 10% sulphuric acid and thoroughly mix. Immediately titrate a 25 mL aliquot with 0.02 mol/L of $KMnO_4$. Determine the required blank and subtract the volume, if any, of $KMnO_4$ required for the blank from that required for the specimen.

6.3.2.3 Calculate the percentage of active oxygen as follows:

$$\% \text{ active oxygen} = \frac{v \times c \times 0.008 \times 500 \times 100 \times 5}{m \times 25} = \frac{v \times c \times 80}{m}$$

where:

v = volume of $KMnO_4$ used (corrected for blank), mL
c = concentration of $KMnO_4$, mol/L
m = mass of the specimen, g

6.3.3 ***Qualitative Test for Soap***

6.3.3.1 *Apparatus and Reagents*

Acetic Acid, Glacial, (CH_3COOH) — ACS Reagent Grade.

Acetic Acid, 5% v/v Solution — Prepared by mixing 5 parts of glacial acetic acid into 95 parts of distilled water.

Normal Laboratory Glassware.

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6.3.3.2 *Procedure* — Dissolve 2 g of stain remover in 100 mL of distilled water. Filter off any insoluble matter. Acidify 5 mL of the filtrate with glacial acetic acid in a test tube. The appearance of a fatty acid precipitate or oily drops indicates the presence of soap.

6.3.4 ***Solution Stability***

6.3.4.1 *Apparatus and Reagent*

Hot Plate — Capable of maintaining a temperature of 80 ± 2°C.

Sulphuric Acid, 5% v/v Solution — Prepared by mixing 5 parts of sulphuric acid into 95 parts of distilled water.

Ice Bath

Normal Laboratory Glassware.

6.3.4.2 *Procedure* — Dissolve 50.0 g of stain remover in 900 mL of distilled water at room temperature in a tared 1500 mL beaker. Add distilled water to bring the total mass of solution to 1000 g. Heat the solution to 80°C. Mark the liquid level on the beaker. Heat at 80 ± 2°C for 3 h restoring the water lost by evaporation. Cool the solution to room temperature using an ice-water bath, and adjust the solution mass to the original 1000 g. Take a 10 g specimen of the solution and add 100 mL of the 5% sulphuric acid solution. Analyze for active oxygen as specified in par. 6.3.2.

6.3.4.3 Calculate the percentage of active oxygen as follows:

$$\% \text{ active oxygen} = \frac{v \times c \times 0.008 \times 100 \times 100 \times 5}{50} = 8 \times v \times c$$

where:

v = volume of $KMnO_4$ used (corrected for blank), mL
c = concentration of $KMnO_4$, mol/L.

6.3.5 ***Stability in Dry Form***

6.3.5.1 *Apparatus*

Drying Oven — Capable of maintaining a temperature of 70 ± 1°C.

6.3.5.2 *Procedure* — Determine the mass of three 4 g specimens of stain remover in three 400 mL tared beakers. Place in an oven and maintain at 70 ± 1°C for 24 h. Determine the active oxygen content of these specimens in accordance with par. 6.3.2.

6.3.6 ***Storage Stability*** — Store one container of the compound for six months at 25 ± 2°C and then determine the active oxygen content in accordance with par. 6.3.2.

7. NOTES

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

a. Packing and marking details, if other than as specified (par. 5.2).

7.2 **Sources of Referenced Publications**

7.2.1 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.

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

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