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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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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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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-2.43-93

Supersedes CAN/CGSB-2.43-M87

Scale-Removing Compound for Lime Deposits



Withdrawn/Retirée

Canadian General Standards Board

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.43-93

Supersedes CAN/CGSB-2.43-M87

SCALE-REMOVING COMPOUND FOR LIME DEPOSITS

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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-2.43-93

Supersedes CAN/CGSB-2.43-M87

CANADIAN GENERAL STANDARDS BOARD

SCALE-REMOVING COMPOUND FOR LIME DEPOSITS

Withdrawn/Retirée

1. SCOPE

1.1 This standard states the requirements for a sulphamic acid type of compound used to remove lime deposits from institutional kitchen equipment.

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.

2.1.2 Department of Consumer and Corporate Affairs

Hazardous Products Act and Regulations.

2.1.3 Department of National Health and Welfare

Food and Drugs Act and Regulations.

2.1.4 American Association of Textile Chemists and Colorists/The Society of Dyers and Colorists

Color Index.

2.2 Reference to the publications in par. 2.1.1 and 2.1.4 is to the latest issues, unless otherwise specified by the authority applying this standard. The sources of all publications are shown in the Notes section.

3. GENERAL REQUIREMENTS

3.1 The compound shall be a uniform mixture containing crystalline sulphamic acid as the major ingredient, magnesium oxide and metanil yellow C.I. No. 13065 indicator dye (par. 2.1.3).

3.2 The manufacturer shall certify the presence of an appropriate corrosion inhibitor in the sulphamic acid type of compound.

3.3 The compound shall contain only those ingredients specified in par. 3.1 and 3.2.

3.4 Traces of the compound that may be left on institutional kitchen equipment after thorough rinsing with potable water following descaling procedures shall not constitute a health hazard.

3.5 Where requested by the procuring authority, a No-objection letter (Note 1) for the formulation of the corrosion inhibitor used in the sulphamic acid type of compound shall be supplied.

***Note 1**: No-objection letters are obtained from the Bureau of Chemical Safety, Health Protection Branch, Department of National Health and Welfare, Ottawa, Canada K1A 0L2.*

4. DETAILED REQUIREMENTS

The sulphamic acid type of compound shall comply with the following detailed requirements:

		Min.	Max.	Test Method
4.1	Sulphamic acid (NH_2SO_3H), % by mass (Note 2)	96	—	Par. 6.3
4.2	Magnesium oxide (MgO), % by mass (Note 3)	0.8	1.2	Par. 6.4
4.3	Metanil yellow, indicator dye, % by mass	0.1	—	Par. 6.5

5. PREPARATION FOR DELIVERY

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

5.2 **Packaging** — The compound shall be suitably packaged in corrosion-resistant containers.

5.3 **Labelling**

5.3.1 The label shall comply with the appropriate regulations of the Hazardous Products Act for goods sold at retail.

5.3.2 The label on the individual container shall have concise directions for using the compound to descale lime deposits from dishwashing machines, steam tables, coffee urns, etc., and a note reminding the users to wash the kitchen equipment thoroughly with potable water following descaling procedures.

5.3.3 The label shall state the expiry date for storage under normal conditions, i.e., 20 to 30°C.

6. INSPECTION

6.1 **Sampling** — Sampling of the compound shall be carried out in accordance with CGSB standard 2-GP-11, Method 1.6. Representative samples of the individual ingredients used shall be taken as follows: 1 kg of sulphamic acid, 50 g of magnesium oxide, 50 g of the inhibitor and 25 g of metanil yellow (m-(p-anilinophenylazo) benzene sulphonic acid sodium salt). Each sample ingredient shall be placed in an individual container which shall be marked with their lot number and the date of sampling.

6.2 **Testing** — The test methods shall be those described below. Preparation of samples for testing shall be in accordance with CGSB standard 2-GP-11, Method 2.

6.3 **Sulphamic Acid**

6.3.1 ***Reagents***

Standard sodium nitrite solution, 0.25 mol/L — The sodium nitrite is standardized against purified sulphamic acid. The sulphamic acid shall be purified according to the following procedure: dissolve 125 g of sulphamic acid in 300 g of water previously heated to 70°C. Filter three times, with gradual lowering of temperature, discarding the materials that crystallize from the solution. Cool the final filtrate rapidly in an ice-salt mixture, and allow to stand for 20 min. Remove the crystals thus formed by suction filtration. Wash the crystals with a small portion of ice water, then twice with cold 95% ethanol and finally with ether. Air dry for 1 h, grind in an agate mortar and store in a desiccator.

Sulphuric acid (50% v/v)

Potassium bromide, saturated solution

Crushed ice.

***Note 2**: The sulphamic acid used in the compound shall have an assay of not less than 99.6% sulphamic acid.*

***Note 3**: The magnesium oxide ingredient shall be a dry, bulky powder containing not less than 96% magnesium oxide after ignition. The loss of magnesium oxide after ignition shall not exceed 3% by mass.*

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6.3.2 ***Apparatus***

pH meter, Beckman zeromatic or equivalent with a polarizing current facility
Silver billet electrode, Beckman No. 39261, or equivalent
Platinum electrode, having 25 mm of exposed platinum
Burette, 50 mL capacity, graduated in 0.1 mL divisions
Volumetric flask, 500 mL capacity
Stirrer
Pipette, 100 mL delivery.

6.3.3 ***Procedure*** — Weigh a 5 g specimen of the compound to the nearest milligram and dissolve in water. Transfer the solution to a 500 mL volumetric flask and dilute to volume. The temperature of the water used shall not exceed 25°C. Transfer a 100 mL aliquot of the solution to a 400 mL beaker. Add 25 mL of 50% sulphuric acid, 15 mL of potassium bromide solution and 40 to 50 g of crushed ice. Connect the electrodes to the pH meter using the polarizing jumper. Connect the silver billet electrode to the input jack and the platinum electrode to the reference jack. Set the meter to read millivolts. Agitate the solution with the stirrer. Immerse the active surfaces of the electrodes in the solution. Place the burette in the sodium nitrate solution with its tip below the surface of the test solution. Titrate by adding definite increments of the sodium nitrite solution. The equivalence point shall be taken at the first permanent surge of the galvanometer. Calculate the percentage of sulphamic acid as follows:

$$\% \pm 5\% = \frac{\text{sodium nitrate (mL)} \times \text{concentration (g/mL)}}{\text{mass of specimen (g)}} \times 48.5 \times 100$$

6.4 **Magnesium Oxide**

6.4.1 ***Reagents***

Sulphuric acid, concentrated
Nitric acid, concentrated
Ammonium chloride
Diammonium phosphate (10% m/v)
Ammonium hydroxide concentrated
Ammonium hydroxide (5% m/v)
Hydrochloric acid (20% v/v)
Methyl purple or methyl orange, pH indicator solution.

6.4.2 ***Procedure*** — Weigh 10 g of the scale-removing compound to the nearest milligram and transfer to a 400 mL beaker. Add 10 mL of concentrated sulphuric acid and heat to dense white fumes. Cool and add 1 mL of concentrated nitric acid dropwise, allowing it to fall down the side of the beaker. Heat again to fuming. Repeat the addition of nitric acid and the fuming until the solution becomes pale yellow or colourless. Allow to cool. Dilute to 100 mL with distilled water. Add 2 ± 0.5 g of ammonium chloride and dissolve. Add 20 mL of 10% diammonium phosphate solution. Stir vigorously and neutralize with concentrated ammonium hydroxide to the methyl purple or methyl orange end point. Cool, add 5 mL of ammonium hydroxide and stir vigorously to initiate precipitation. Allow the precipitate to settle for at least 4 h. Filter through a Whatman No. 42 filter paper and wash with 5% ammonium hydroxide. Char and ignite in a tared crucible at 1000°C until constant mass is obtained. Calculate the percentage of magnesium oxide as follows:

$$\% = \frac{\text{mass of residue (g) x 36.2}}{\text{mass of specimen (g)}} \times 100$$

6.5 **Metanil Yellow, Indicator Dye**

6.5.1 ***Percent by mass***

6.5.1.1 *Reagents*

Buffer solution, pH 0.8 (20 g/L of Cr_2O_3)
Metanil Yellow, Indicator Dye (highest grade)
Sulphuric acid, reagent grade:

a. 50% v/v solution in water

b. 2% v/v solution in water.

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6.5.1.2 *Apparatus*
Spectrophotometer
pH meter
Glass mortar and pestle
Matched optical absorption cells, 10 mm.

6.5.1.3 *Preparation of Sample*

a. Mix thoroughly the sample of scale-removing compound. Transfer 15 to 20 g to a glass mortar and grind thoroughly.

b. Weigh 3.000 g of the ground material and transfer it to a 250 mL beaker.

6.5.1.4 *Preparation of Standard Solutions*

a. Of the ingredient samples supplied, weigh 10.0 g of the sulphamic acid and 0.100 g each of the magnesium oxide and the inhibitor. Transfer to a glass mortar, grind and mix thoroughly.

b. Weigh 0.0100 g of the sampled metanil yellow, dissolve it completely in water. Transfer it to a 250 mL volumetric flask and dilute to volume.

c. Weigh two 3.00 g portions of the ground and mixed ingredients, and transfer to 250 mL beakers.

d. To one add 75.0 mL of the metanil yellow solution, and to the other 60.0 mL. These are the two standard solutions: one equivalent to 0.1000% dye, the other to 0.0800%.

6.5.1.5 *Procedure* — Dissolve the sample and the standard solutions in distilled water and transfer each to individual 1000 mL volumetric flasks, filtering the sample solution through a coarse filter paper. Check for undissolved dye by rinsing the beakers and filter paper with 2% H_2SO_4. If dye is present, continue washing with water. Dilute the sample and the standard solutions to approximately 950 mL; then adjust the pH to 0.5 by adding a few millilitres of 50% H_2SO_4 (about 25 mL), checking with a pH meter calibrated with the pH 0.8 buffer solution. Return all tested portions to their respective flasks, dilute to volume and mix thoroughly. Measure the absorbance of the sample and standard solutions using a spectrophotometer at the absorbance peak of approximately 525 to 530 nm and calculate the percentage of dye in the sample.

6.5.2 ***Colour Change***

6.5.2.1 *Reagents*
Buffer solution, pH 2
Sodium hydroxide pellets.

6.5.2.2 *Apparatus*
Stirrer
Beckman zeromatic pH meter, or equivalent, with glass and calomel electrodes
Volumetric flask, 500 mL capacity.

6.5.2.3 *Procedure* — Standardize the pH meter with the pH 2 buffer solution. Prepare a stock solution by dissolving exactly 15.0 g of the compound in water, diluting to 500 mL and mixing thoroughly. Transfer 50 mL of the stock solution to a 150 mL beaker. Agitate the solution with the stirrer. Place the electrodes in the solution and record the pH. Add sodium hydroxide pellets to the solution, one at a time, allowing each to dissolve completely before another is added. Note and record the pH at which a distinct colour change, from purple or red to yellow, occurs. Discontinue the test if no colour change has occurred before the pH reaches 3.5.

7. NOTES

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

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

7.2 **Intended Uses** — The compound is intended for use on institutional kitchen equipment such as steam tables, dishwashing machines and coffee urns. It may also be used to remove scale deposits from salt water evaporators and fresh-water cooling and distribution systems, and to remove water side-scale from heat transfer units.

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7.3 **Sources of Referenced Publications**

7.3.1 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 941-8704. Fax (613) 941-8705.

7.3.2 The publications referred to in par. 2.1.2 and 2.1.3 may be obtained from the Canada Communication Group, Publishing, Ottawa, Canada K1A 0S9. Telephone (819) 956-4802.

7.3.3 The publication referred to in par. 2.1.4 may be obtained from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709, U.S.A.

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