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Canadian General Standards Board | Office des normes générales du Canada

Series 2

Série des 2

WITHDRAWAL

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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

Mars 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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CAN/CGSB-2.60-92

Remover for Water-Emulsion Floor Polish and Wax (ICS 71.100.40)

CAN/CGSB-2.107-92

General Purpose Built Liquid Detergent (ICS 71.100.40)

CAN/CGSB-2.160-95

General Purpose, Germicidal Detergent (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-2.60-92

Décapant pour sols recouverts de cire et d'encaustique, de type émulsion aqueuse (ICS 71.100.40)

CAN/CGSB-2.107-92

Détergent liquide d'usage général additionné d'agents améliorant la détergence (ICS 71.100.40)

CAN/CGSB-2.160-95

Détergent liquide germicide, à usage général (ICS 71.100.40)

CGSB ONGC

Canadian
General
Standards
Board

CAN/CGSB-2.160-95

Supersedes CAN/CGSB-2.160-M87

General Purpose, Germicidal Liquid Detergent

Withdrawn/Retirée



National Standard of Canada

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A National Standard of Canada is a standard which has been approved by the Standards Council of Canada and one which reflects a reasonable agreement among the views of a number of capable individuals whose collective interests provide, to the greatest practicable extent, a balance of representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. It normally is a standard that is capable of making a significant and timely contribution to the national interest.

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.160-95

Supersedes CAN/CGSB-2.160-M87

GENERAL PURPOSE, GERMICIDAL LIQUID DETERGENT

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 Conformity Assessment Directorate of CGSB.

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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

GENERAL PURPOSE, GERMICIDAL LIQUID DETERGENT

1. SCOPE

1.1 This standard specifies the requirements for a synthetic liquid detergent containing a phenolic, quaternary ammonium or other type of germicide.

1.2 Germicidal liquid detergent produced to this standard is intended primarily for the general cleaning and disinfecting of floors, walls and other hard surfaces in institutions where the destruction of bacteria is important. It is suitable for use on resilient flooring, porcelain, glass, tile, stainless steel, chrome, and painted or varnished surfaces.

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. REFERENCED PUBLICATIONS

2.1 The following publications are referenced in this standard:

2.1.1 Canadian General Standards Board (CGSB)

CAN/CGSB-2.11 — Method of Testing and Analysis of Soaps and Detergents.

2.1.2 Health Canada

Pest Control Products Act and Regulations.

Food and Drugs Act and Regulations.

2.1.3 Industry Canada

Principles and Guidelines for Environmental Labelling and Advertising.

2.1.4 Association of Official Analytical Chemists (AOAC)

Official Methods of Analysis of the AOAC.

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. TERMINOLOGY

3.1 The following definitions apply in this standard:

Bactericide: an antimicrobial agent capable of destroying bacteria, but not necessarily bacterial spores or mycobacteria.

Disinfectant: synonymous to germicide.

Germicide: an antimicrobial agent capable of destroying pathogenic and potentially pathogenic microorganisms on inanimate surfaces. A germicide without specified target organisms on the container label is regarded only as a bactericide.

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4. CLASSIFICATION

4.1 The germicidal liquid detergent shall be supplied in the following types, as specified (par. 9.1):

4.1.1 ***Types***

Type 1 — Phenolic

Type 2 — Quaternary Ammonium Compound

Type 3 — Other.

5. GENERAL REQUIREMENTS

5.1 Germicidal detergent to this standard shall conform to the Pest Control Products Act and shall be registered by Health Canada.

5.2 Germicidal detergent to this standard shall conform to the Food and Drugs Act and, when used in a hospital or food processing area, have a drug identification number that has been issued by Health Canada.

5.3 The detergent will clean and disinfect in one operation in the presence of hard water as specified (par. 6.5 and 6.6).

5.4 The product shall be a clear homogeneous solution at room temperature (20°C).

5.5 The germicidal detergent shall not contain visible foreign matter and shall be free from objectionable odour (e.g., rancidity or odour of decomposition) as received and in solution in hot water.

5.6 When stored under normal conditions in unopened containers for one year, the material shall remain stable and homogeneous, and shall remain free from objectionable odour.

5.7 When used in accordance with the manufacturers's instructions, the product shall not cause deterioration of vinyl, asphalt, terrazzo or rubber flooring surfaces. When used on metallic or other surfaces, the product shall cause no greater corrosion or other harmful effects than water used in the same conditions.

6. DETAILED REQUIREMENTS

6.1 **Total Solids** — The non-volatile content (percent by mass) of the product shall be determined in accordance with CAN/CGSB-2.11, Method 13.1. (This requirement provides a quick check of consistency of qualification products).

6.2 **pH** — When tested in accordance with CAN/CGSB-2.11, Method 18.1, the pH of a solution prepared by dissolving 1 part of the product to be tested to 80 parts of distilled water, shall be within the range of 4.0 to 11.5.

6.3 **Stability to Hard Water** — When tested in accordance with CAN/CGSB-2.11, Method 19.1, the germicidal liquid detergent shall generate no more than 0.5 mL of curd.

6.4 **Stability at Low Temperature** — Any cloudiness, turbidity, separation or layering that may develop when the product is held at 10°C for 24 h shall be completely eliminated when the product is returned to room temperature (20°C approx.) for 24 h and well shaken or agitated.

6.5 **Bactericide Activity** — The liquid detergent at a dilution of 1:80 shall give a positive 100% kill, at a confidence level of 95% (59 out of 60 replicates), against *Staphylococcus aureus, Salmonella choleraesuis* and *Pseudomonas aeruginosa*, when tested in accordance with the AOAC method. Use dilution test, in the presence of 5% blood serum and in hard water of 200 mg/L $CaCO_3$[1].

Alternatively, efficacy data meeting the test requirements (par. 6.5.1), obtained from the Drug Identification Number (DIN) or Pest Control Products (PCP) registration may be submitted as evidence of the bactericide activity.

6.6 **Cleaning Efficiency** — When tested in accordance with CAN/CGSB-2.11, Method 20.3, the germicidal liquid detergent at a 1:20 dilution with synthetic hard water shall have a cleaning efficiency of 70% or higher.

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[1] *Prepared by dissolving* 236 mg *of calcium acetate* ($Ca(CH_3COO)_2 \cdot H_2O$) *and* 164 mg *of magnesium sulphate* ($MgSO_4 \cdot H_2O$) *in sufficient distilled water to make* 1 L.

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7. PREPARATION FOR DELIVERY

7.1 **Packaging, Packing and Marking** — Unless otherwise specified (par. 9.1), normal commercial packaging, packing and marking shall be acceptable.

7.2 **Labelling**

7.2.1 The labelling shall comply with the requirements of any relevant Government Acts and Regulations.

7.2.2 Environmental claims and/or representations shall follow the Department of Consumer and Corporate Affairs' Principles and Guidelines for Environmental Labelling and Advertising.

7.2.3 The manufacturer shall provide instructions covering the use and dilution rates of the compound, and these shall be permanently affixed to the outside of each container.

7.2.4 In addition to complying with the labelling requirements of any relevant Acts or Regulations, each individual container and each shipping container shall be suitably labelled to show the following information printed in bold-face type and securely affixed to the container:

GENERAL PURPOSE, GERMICIDAL LIQUID DETERGENT

Manufacturer's or supplier's name

Date packaged

Unit size (mass or volume)

Standard number: CAN/CGSB-2.160-95

CAUTION: "Keep from Freezing" and "Shake well before using"

8. INSPECTION

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

8.2 **Testing** — Preparation of the specimens in the laboratory for testing shall be carried out in accordance with CAN/CGSB-2.11, Method 2. The methods of testing shall be those specified with each requirement. At the discretion of the testing authority, additional analysis may be made to determine whether the material complies with the requirements of the standard.

9. NOTES

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

a. Type of germicide (par. 4.1).

b. Packaging and packing details, if normal commercial practice is not suitable (par. 7.1).

c. For Federal Government Procurement, markings shall include the NATO stock number and the Public Works and Government Services Canada contract serial number.

9.2 **Product Information**

9.2.1 Usual precautions against freezing should be taken. When the product is cooled below 10°C, the germicide may crystallize out. The effectiveness of the product is not adversely affected provided it is warmed to room temperature and well shaken or agitated to redissolve any germicide that precipitated out.

9.2.2 The products to this standard are designed to be effective for use with water of up to 200 mg/L $CaCO_3$ hardness. When water hardness exceeds this level, either use correspondingly more product or soften the water.

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9.3 **Related Publication** — At the time of publication, the undernoted document was a related publication. A related publication is not necessarily equivalent and does not take precedence over this standard.

9.3.1 CAN/CGSB-2.161 — Assessment of Efficacy of Antimicrobial Agents for Use on Environmental Surfaces and Medical Devices.

9.4 **Sources of Referenced Publications**

9.4.1 The publications referred to in par. 2.1.1 and 9.3.1 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.

9.4.2 The publications referred to in par. 2.1.2 may be obtained from the Canada Communication Group, Publishing, Ottawa, Canada K1A 0S9. Telephone (819) 956-4800.

9.4.3 The publication referred to in par. 2.1.3 may be obtained from Industry Canada, Consumer Packaging and Labelling Section, Ottawa, Canada K1A 0C9.

9.4.4 The publication referred to in par. 2.1.4 may be obtained from the Association of Official Analytical Chemists, 1111 N. 19th Street, Suite 210, Arlington, VA 22209, U.S.A.

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