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Series 2

Série des 2

WITHDRAWAL

October 2016

Standards in series
Soaps and detergents

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RETRAIT

Octobre 2016

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Savons et détergents

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CAN/CGSB-2.55-97
Glass Cleaner (ICS 17.100.40)

CAN/CGSB-2.115-95
Built Powder Laundry Detergent (ICS 17.100.40)

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CAN/CGSB-2.55-97
Nettoyant pour verre (ICS 17.100.40)

CAN/CGSB-2.115-95
Détergent de blanchissage, en poudre, additionné d'adjuvants (ICS 17.100.40)

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CAN/CGSB-2.55-97

Supersedes CAN/CGSB-2.55-92

Glass Cleaner

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National Standard of Canada

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NATIONAL STANDARD OF CANADA

CAN/CGSB-2.55-97

Supersedes CAN/CGSB-2.55-92

GLASS CLEANER

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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

GLASS CLEANER

1. SCOPE

1.1 This standard specifies the chemical and physical requirements for a ready-to-use and a concentrated liquid product of defined composition, used for cleaning windows and other glass surfaces.

1.2 The liquid glass cleaner is not suitable for cleaning plastic surfaces and it should not be used as an automatic windshield washer fluid because of the deleterious effects it may have on other surfaces of the vehicle. The windshields may be cleaned by hand with this product.

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 Canadian Standards Association (CSA)

CSA HA Series — Standards for Aluminum and Aluminum Alloys.

2.1.3 Health Canada (HC)

Hazardous Products Act and Regulations.

2.1.4 Industry Canada (IC)

Principles and Guidelines for Environmental Labelling and Advertising.

2.1.5 American Society for Testing and Materials (ASTM)

D 56 — Test Method for Flash Point by Tag Closed Tester

D 1123 — Test Method for Water in Engine Coolant Concentrate by the Karl Fischer Reagent Method.

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 glass cleaner shall be supplied in the following types, as specified (par. 8.1):

3.1.1 ***Types***

Type 1 — Ready-to-use

Type 2 — Concentrate.

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4. GENERAL REQUIREMENTS

4.1 The glass cleaner shall be a clear homogeneous solution free from objectionable odour.

4.2 It may contain a stable dye.

4.3 It shall have no injurious effect on the skin and shall contain no ingredients that are toxic under normal conditions of use.

4.4 The glass cleaner shall be stable and shall not lose effectiveness or otherwise deteriorate when stored in an unopened container for one year at temperatures between 10 and 40°C.

5. DETAILED REQUIREMENTS

5.1 **Composition** — The glass cleaner shall contain synthetic detergent, water and solvent(s) (e.g. alcohol, glycol, glycol ether). Ethylene glycol monomethyl ether and ethylene glycol monoethyl ether shall not be used.

5.2 In the analysis of the glass cleaner for the following requirements, the results obtained shall be expressed on the basis of the sample as received:

		Type 1		Type 2		Test Method
		Min.	Max.	Min.	Max.	
5.2.1	Flash Point, °C	38	—	27	—	ASTM D 56
5.2.2	Water content, % by mass	—	96	—	85	ASTM D 1123
5.2.3	Total solvents, % by mass	4.0	10.0	15.0	—	Par. 7.3.1
5.2.4	Non-volatile content, % by mass	0.1	0.5	1.0	2.0	Par. 7.3.2
5.2.5	pH	7.0	11.0	7.0	11.0	CAN/CGSB-2.11 Method 18.1

5.3 **Identification of Non-volatile Matter** — When tested in accordance with CAN/CGSB-2.11, Method 30.1, the non-volatile matter shall consist of synthetic detergent together with colouring agent. The type of detergent (i.e. anionic, cationic or nonionic) to be used is not specified but shall be reported.

5.4 **Corrosion and Discolouration of Aluminum Alloys** — When tested in accordance with par. 7.3.3, the glass cleaner shall not produce visible corrosion or discolouration on an aluminum alloy panel.

6. PREPARATION FOR DELIVERY

6.1 **Packaging[1] Packing and Marking** — Unless otherwise specified (par. 8.1), normal commercial packaging, packing and marking shall be acceptable.

6.2 **Labelling[1]**

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

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

6.2.3 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:

GLASS CLEANER

Manufacturer's or supplier's name

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[1] *This product is subject to THE TRANSPORTATION OF DANGEROUS GOODS regulations for packaging and labelling, which differ according to the mode of transport.*

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Date packaged

Type

Unit size (volume)

Standard number: CAN/CGSB-2.55-97.

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

7. INSPECTION

7.1 **Sampling** — A sample of at least 500 mL shall be taken, representative of each production batch[2].

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

7.3 **Testing**

7.3.1 ***Total Solvents***

7.3.1.1 Determine the percentage of synthetic detergent in accordance with CAN/CGSB-2.11, Method 17.2.

7.3.1.2 Calculate the total solvent content as follows:

% total solvent = 100 – (% water + % non-volatile matter)

7.3.2 ***Non-volatile Content***

7.3.2.1 *Apparatus*

Drying Oven — Capable of maintaining a temperature in the range of 100 to 105°C. Once the desired temperature is reached, it shall remain stable within ±2°C.

Vacuum Oven — Capable of maintaining a temperature in the range of 45 to 50°C. Once the desired temperature is reached, it shall remain stable within ±2°C.

Steam Bath

Normal Laboratory Glassware.

7.3.2.2 *Procedure*

a. Accurately determine the mass of a 100 g specimen of the cleaner in a tared glass dish and heat on a steam bath to dryness.

b. Place the dish in an oven at 100 to 105°C and dry to constant mass.

Note: *If decomposition or discolouration of the solids occurs, carry out the drying in a vacuum oven at 45 to 50°C.*

7.3.2.3 Report the mass of the residue as a percentage by mass of the glass cleaner.

7.3.3 ***Corrosion and Discolouration of Aluminum Alloys***

7.3.3.1 *Procedure* — Place approximately 1 mL of the glass cleaner on the cleaned, grease-free surface of a 75 × 150 mm panel of aluminum alloy 1 mm thick, conforming to CSA HA.4.2024, Temper T3, and cover it with a watch glass. At the end of 6 h, remove the watch glass, rinse the panel with distilled water, and air dry at room temperature. Inspect the panel for any evidence of attack or discolouration.

8. NOTES

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

a. Type of glass cleaner (par. 3.1)

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[2] *A "production batch" is the amount of product made at one time under identical conditions of manufacture.*

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b. Packaging, packing and marking details, if other than as specified (par. 6.1).

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 publication referred to in par. 2.1.2 may be obtained from the Canadian Standards Association, Standards Sales, 178 Rexdale Boulevard, Etobicoke, Ontario M9W 1R3.

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

8.2.4 The publication referred to in par. 2.1.4 may be obtained from Industry Canada, Consumer Packaging and Labelling Section, Ottawa, Canada K1A 0C9.

8.2.5 The publications referred to in par. 2.1.5 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A., telephone (610) 832-9500 or from the Standards Council of Canada, Standards Sales Branch, 45 O'Connor Street, Suite 1200, Ottawa, Ontario K1P 6N7. Telephone (613) 238-3222 or 1-800-267-8220 (Canada only).

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