



Government
of Canada

Gouvernement
du Canada

Canadian General
Standards Board

Office des normes
générales du Canada

Series 1
Série des 1

WITHDRAWAL

November 2015

Selected standards in the series Paints, pigments and related products

These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

The information contained in these Standards was originally developed pursuant to a voluntary standards development initiative of the CGSB. The information contained therein may no longer represent the most current, reliable, and/or available information on these subjects. CGSB hereby disclaims any and all claims, representation or warranty of scientific validity, or technical accuracy implied or expressed respecting the information therein contained. The CGSB shall not take responsibility nor be held liable for any errors, omissions, inaccuracies or any other liabilities that may arise from the provision or subsequent use of such information.

RETRAIT

Novembre 2015

Sélection de normes de la série Peintures, pigments et produits connexes

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.

L'information contenue dans ces normes a été élaborée initialement en vertu d'une initiative volontaire d'élaboration de normes de l'ONGC. Elle peut ne plus représenter l'information disponible et/ou l'information la plus actuelle ou la plus fiable à ce sujet. L'ONGC décline par la présente toute responsabilité à l'égard de toute affirmation, déclaration ou garantie de validité scientifique ou d'exactitude technique implicite ou explicite relative à l'information contenue dans ces normes. L'ONGC n'assumera aucune responsabilité et ne sera pas tenu responsable quant à toute erreur, omission, inexactitude ou autre conséquence pouvant découler de la fourniture ou de l'utilisation subséquente de cette information.

Copies of withdrawn standards are available from the CGSB Sales Centre by telephone at 819-956-0425 or 1-800-665-2472, by fax at 819-956-5740, by Internet at www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html, by e-mail at ncr.CGSB-ONGC@tpsgc-pwgsc.gc.ca or by mail at Sales Centre, Canadian General Standards Board, 11 Laurier Street, Gatineau, Canada K1A 1G6.

CAN/CGSB-1.2-98

Boiled Linseed Oil (ICS 87.040)

CAN/CGSB-1.4-2000

Petroleum Spirits Thinner (ICS 87.040)

CAN/CGSB-1.70-99

High-Solvency Thinner (ICS 87.040)

CAN/CGSB-1.110-M91

General Purpose Thinner for Lacquers (ICS 87.040)

CAN/CGSB-1.124-99

Thinner for Vinyl Coatings (ICS 87.040)

CAN/CGSB-1.136-92

Antiblush Thinner for Cellulose Nitrate Lacquer (ICS 87.040)

CAN/CGSB-1.164-99

Solvent for Vinyl Pretreatment Coating (ICS 87.040)

Des copies des normes retirées peuvent être obtenues 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/index-fra.html, 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-1.2-98

Huile de lin cuite (ICS 87.040)

CAN/CGSB-1.4-2000

Diluant, essence minérale (ICS 87.040)

CAN/CGSB-1.70-99

Diluant à pouvoir solvant élevé (ICS 87.040)

CAN/CGSB-1.110-M91

Diluant d'usage général, pour produits-laque (ICS 87.040)

CAN/CGSB-1.124-99

Diluant pour revêtements aux résines vinyliques (ICS 87.040)

CAN/CGSB-1.136-92

Diluant antiopalescent pour produit-laque nitrocellulosique (ICS 87.040)

CAN/CGSB-1.164-99

Solvant pour peinture primaire réactive vinylique (ICS 87.040)

NATIONAL STANDARD OF CANADA

CAN/CGSB-1.110-M91

Supersedes 1-GP-110M

General Purpose Thinner For Lacquers



QUALITY

Withdrawn/Retired

Canadian General Standards Board

CGSB

The CANADIAN GENERAL STANDARDS BOARD (CGSB), under whose auspices this standard has been developed is a government agency within the Federal Department of Supply and Services. CGSB is engaged in the production of voluntary standards in a wide range of subject areas through the media of standards committees and the consensus process. The standards committees are composed of representatives of relevant interests including producers, consumers and other users, retailers, governments, educational institutions, technical, professional and trade societies, and research and testing organizations. Any given standard is developed on the consensus of views expressed by such representatives. The Minister's Advisory Council on CGSB reviews the results of the consensus process.

CGSB has been accredited by the Standards Council of Canada as a national standards-writing organization. The standards that it develops and offers as National Standards of Canada conform to the criteria and procedures established for this purpose by the Standards Council of Canada. In addition to standards it publishes as national standards, CGSB produces standards to meet particular needs, in response to requests from a variety of sources in both the public and private sectors. Both CGSB standards and national standards developed by CGSB are developed in conformance with the policies described in the Policy Manual for the Development and Maintenance of Standards by CGSB.

CGSB standards are subject to review and revision at any time, so as to ensure that they keep abreast of technological progress. Suggestions for their improvement, which are always welcome, should be brought to the notice of the standards committees concerned. Changes to standards are issued either as separate amendment sheets or in new editions of standards.

An up-to-date listing of CGSB standards, including details on latest issues and amendments, and ordering instructions, will be found in the CGSB Catalogue, which is published annually and is available without charge upon request.

Although the intended primary application of this standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Many tests required by CGSB standards are inherently hazardous. CGSB neither assumes nor accepts any responsibility for any injury or damage that may occur during or as the result of tests, wherever performed.

CGSB takes no position respecting the validity of any patent rights asserted with any item connected with this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights are entirely their own responsibility.

Further information on CGSB and its services and standards may be obtained from:

The Secretary
Canadian General Standards Board
Ottawa, Canada
K1A 1G6

The STANDARDS COUNCIL OF CANADA is the coordinating body of the National Standards System, a federation of independent, autonomous organizations working towards the further development and improvement of voluntary standardization in the national interest.

The principal objectives of the Council are to foster and promote voluntary standardization as a means of advancing the national economy, benefiting the health, safety and welfare of the public, assisting and protecting the consumer, facilitating domestic and international trade, and furthering international co-operation in the field of standards.

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.

Approval of a standard as a National Standard of Canada indicates that a standard conforms to the criteria and procedures established by the Standards Council of Canada. Approval does not refer to the technical content of the standard; this remains the continuing responsibility of the accredited standards-writing organization.

Those who have a need to apply standards are encouraged to use National Standards of Canada whenever practicable. These standards are subject to periodic review; therefore, users are cautioned to obtain the latest edition from the organization preparing the standard.

The responsibility for approving National Standards of Canada rests with the:

Standards Council of Canada
350 Sparks Street
Ottawa, Ontario
K1P 6N7

How to order **CGSB** Publications:

by Telephone — (819) 956-0425 or
— (819) 956-0426

by Fax — (819) 956-5644

by Mail — CGSB, Sales Unit
Ottawa, Canada
K1A 1G6

in Person — Place du Portage III, 9C1
11 Laurier Street
Hull, Quebec

GENERAL PURPOSE THINNER FOR LACQUERS

This new edition supersedes 1-GP-110M, March 1981. There are no substantial technical changes.

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 Qualification and Certification Listing Branch of CGSB.

Prepared by the

Canadian General Standards Board



Approved by the

Standards Council of Canada



Published May 1991 by the
Canadian General Standards Board
Ottawa, Canada K1A 1G6

©Minister of Supply and Services Canada — 1991

No part of this publication may be reproduced in any form without the prior permission of the publisher.

CANADIAN GENERAL STANDARDS BOARD

COMMITTEE ON AERONAUTICAL AND INDUSTRIAL
PAINT FINISHES

(Membership at date of approval)

Afzal, A. <i>Chairman</i>	Department of National Defence
Ashton, H.E.	National Research Council of Canada
Carlyle, A.G.	Department of National Defence
Corbeil, G.	Sico Paint Inc.
Croutch, V.	ORTECH International
Deruiter, R.	Reichhold Chemicals Ltd.
Desbiens, Y.	Canadian Arsenals Ltd.
Gonsalves, I.	Glidden Company (Canada) Ltd.
Hebdige, B.A.	International Paints (Canada) Ltd.
Hicks, Lt B.	Department of National Defence
Johnston, D.J.	Tristar Coatings
King, W.B.G.	The Standards Manufacturing Co. Ltd.
Kulkarni, V.	PPG Industries Canada Inc.
Ordinario, R.	Basf Inmont Canada Inc.
Pfaff, T.A.	Valspar Inc.
Taada, K.	Department of Supply and Services
Tong, P.	Union Carbide Canada Ltd.
Viens, P.	Quebec Hydro
Wiezoreck, G.	West Coast Painting Co. Ltd.
Khan, R.A. <i>Secretary</i>	Canadian General Standards Board

Acknowledgement is made for the French translation of this National Standard of Canada by the Translation Bureau of the Department of the Secretary of State and for the publishing by MGL Publishing Inc.

CANADIAN GENERAL STANDARDS BOARD

GENERAL PURPOSE THINNER FOR LACQUERS**1. SCOPE**

- 1.1 This standard applies to a mixture of organic liquids in which the active solvent portion for the lacquer is of the ketone and/or ester type.
- 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)

1-GP-71 — Methods of Testing Paints and Pigments.

2.1.2 Department of Consumer and Corporate Affairs

Hazardous Products Act.

2.1.3 ASTM

D 130 — Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test

D 156 — Test Method for Saybolt Color of Petroleum Products (Saybolt Chromometer Method)

D 1078 — Test Method for Distillation Range of Volatile Organic Liquids

D 1613 — Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products.

- 2.2 Reference to the publications in par. 2.1.1 and 2.1.3 and to other related standards is to the latest issues unless otherwise specified by the authority applying this standard. The sources for all publications are shown in the Notes section.

3. GENERAL REQUIREMENTS

- 3.1 The thinner shall be a clear, colourless liquid free from suspended matter and other visible impurities.
- 3.2 It shall be suitable for general use as thinner for lacquers.

4. DETAILED REQUIREMENTS

Thinner to this standard shall comply with the following detailed requirements when tested in accordance with the specified test methods:

		Test Method			
		Min.	Max.	CGSB 1-GP-71	ASTM
4.1	Colour, Saybolt chromometer	25	—	—	D156
4.2	Residue on Evaporation, g/100mL	—	0.02	20.1	—
4.3	Acidity, KOH, mg/mL	—	0.2	—	D1613
4.4	Distillation range	—	—	—	D1078
4.4.1	Initial boiling point, °C	70	80	—	—
4.4.2	75% point, °C	90	115	—	—
4.4.3	End point, °C	145	115	—	—
4.5	Benzene, % by mass	—	0.1*	28.5	—
4.6	Hydrocarbons, % by volume	—	40	66.2	—
4.7	Water Content — When 1 volume of the thinner is mixed with 19 volumes of water-saturated toluene, the mixture shall show no turbidity, when tested in accordance with CGSB standard 1-GP-71, Method 24.2.				
4.8	Solvent Power — A solution of 5 g of cellulose nitrate in 25 mL of the thinner shall withstand the addition of 37 mL of toluene without precipitation when tested in accordance with CGSB standard 1-GP-71, Method 26.1.				
4.9	Resistance to Blushing — No whitening due to blushing shall occur when a thinned lacquer is dried at 65% RH and 23°C in accordance with CGSB standard 1-G-71, Method 38.1.				
4.10	Sulphur (Copper Strip Test) — After 3 h at $100 \pm 1^\circ\text{C}$ the tarnish on the copper strip shall not be greater than No.1 when tested in accordance with ASTM D 130.				

5. PREPARATION FOR DELIVERY

- 5.1 Unless otherwise specified (par. 7.1), preparation for delivery shall conform to normal commercial practice.
- 5.2 **Labelling** — In addition to complying with the labelling requirements of any relevant Acts or Regulations, each container shall be suitably labelled to show the following information:
- Name of material
Standard number: CAN/CGSB-1.110-M91
Manufacturer's name and address
Manufacturer's batch number
Manufacturer's code number.
- 5.3 **Toxic Elements** — This material shall be labelled to conform to the requirements of the Hazardous Products Act in respect to designated toxic elements.

*Hazardous Products Act

6. INSPECTION

6.1 **Sampling** — Sampling shall be carried out in accordance with CGSB standard 1-GP-71, Method 1.1.

7. NOTES

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

a. Preparation for delivery, if other than as specified (par. 5.1).

7.2 Intended Uses

7.2.1 This material is intended for thinning of lacquers to spraying consistency.

7.2.2 Under high humidity conditions a suitable portion of thinner conforming to CGSB standard 1-GP-126M should be added to prevent blushing.

7.2.3 The thinner supplied to this standard may be injurious to the operators and should therefore be used with adequate ventilation.

7.3 Related Publications

CGSB Standards:

1-GP-124M — Thinner for Vinyl Coatings

1-GP-136M — Thinner, Antiblush, for Cellulose Nitrate Lacquer

1-GP-197M — Thinner for Epoxy Coatings.

7.4 Sources of Referenced Publications

7.4.1 The publications referred to in par. 2.1.1, 7.2.2 and 7.3 may be obtained from the Canadian General Standards Board, Sales Unit, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 956-0426. Fax (819) 956-5644.

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

7.4.3 The publications referred to in par. 2.1.3 may be obtained from ASTM, 1916 Race Street, Philadelphia, PA 19103, U.S.A. or from the Standards Council of Canada, Standards Sales Branch, 350 Sparks Street, Suite 1200, Ottawa, Ontario K1P 6N7.



Withdrawn/Retirée