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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.

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RETRAIT

Novembre 2015

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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)

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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)



Canadian
General
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CAN/CGSB-1.70-99

Supersedes CAN/CGSB-1.70-M91

High-Solvency Thinner

National Standard of Canada

Canada



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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.

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HIGH-SOLVENCY THINNER

Prepared by the
Canadian General Standards Board 

Approved by the
Standards Council of Canada 

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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

HIGH-SOLVENCY THINNER**1. SCOPE**

- 1.1 This standard applies to a high-solvency thinner for use with synthetic resin finishes.
- 1.2 The thinner is suitable for the general thinning of synthetic resin base finishes requiring a higher solvent power than provided by thinner conforming to CAN/CGSB-1.4, but not as high as thinner conforming to CAN/CGSB-1.94.
- 1.3 It is particularly suited for thinning materials by spray application because it evaporates faster than thinner conforming to CAN/CGSB-1.4 and the sprayed materials should show less tendency to sag.
- 1.4 The testing and evaluation of a product against this standard may require the use of material 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-1.4 — Petroleum Spirits Thinner
 - 1-GP-71 — Methods of Testing Paints and Pigments
 - CAN/CGSB-1.94 — Xylene Thinner (Xylol).
 - 2.1.2 Health Canada
 - Hazardous Products (Liquid Coating Materials Regulations) Act.
 - 2.1.3 American Society for Testing and Materials (ASTM)
 - D 56 — Standard Test Method for Flash Point by Tag Closed Tester
 - D 86 — Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure
 - D 130 — Standard Test Method for Detection of Copper Corrosion from Petroleum Products by the Copper Strip Tarnish Test
 - D 156 — Standard Test Method for Saybolt Color of Petroleum Products
 - D 611 — Standard Test Method for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents
 - D 1209 — Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)
 - D 3278 — Standard Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus.
- 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 thinner shall be a mixture of aromatic and aliphatic hydrocarbons free from water, suspended matter and other impurities.

- 3.2 The thinner shall be clear and its odour shall not be abnormally strong or offensive.
- 3.3 **Toxic Elements** — The thinner shall be manufactured in accordance with the requirements of the *Hazardous Products (Liquid Coating Materials Regulations) Act* for designated toxic elements.

4. DETAILED REQUIREMENTS

The thinner shall comply with the following detailed requirements when tested in accordance with the specified test method:

		Min.	Max.	Test Method	
				CGSB 1-GP-71	ASTM
4.1	Relative density at 25°C	0.82	—	2.2	—
4.2	Flash point, Tag closed cup ¹ , °C	30	—	—	D 56
4.3	Distillation range	—	—	—	D 86
	Initial boiling point, °C	135	155	—	—
	50% recovered, °C	145	165	—	—
	90% recovered, °C	155	185	—	—
	Final boiling point, °C	165	195	—	—
4.4	Residue on evaporation, %	—	0.1	20.1	—
4.5	Mixed aniline point (Solvent value), °C	—	45	—	D 611
4.6	Benzene, % by mass	—	0.1	65.1	—
4.7	Colour				
	Saybolt	+21	—	—	D 156
	Platinum-cobalt	—	45	—	D 1209 ²
4.8	Copper strip corrosion	—	No. 1	—	D 130
4.9	Solvent Composition				
4.9.1	The thinner shall consist entirely of hydrocarbons when tested in accordance with CGSB standard 1-GP-71, Method 66.2.				
4.9.2	The thinner, as supplied, and the final 50% from distillation shall each contain not less than 40% by volume aromatic hydrocarbons when tested in accordance with CGSB standard 1-GP-71, Method 66.3.				

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-1.70-99

Manufacturer's name and address

¹ The SETA Flash Tester (ASTM D 3278) may be used as an alternative method. In the event of a dispute the Tag closed cup method shall be the referee method.

² In case of dispute, ASTM D 156 shall be the referee method.

Manufacturer's batch number

Manufacturer's code_number (if applicable)

Date of manufacture

Volume of contents in litres

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 **Options** — 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 Sources of Referenced Publications

7.2.1 The publications referred to in par. 2.1.1 may be obtained from the Canadian General Standards Board, Sales Centre, Ottawa, Canada K1A 1G6. Telephone (819) 956-0425 or 1-800-665-CGSB (Canada only). Fax (819) 956-5644.

7.2.2 The publication referred to in par. 2.1.2 may be obtained from Health Canada, Product Safety Bureau, Jeanne Mance Building, 12th floor, Tunney's Pasture, Ottawa, Canada K1A 0K9. Telephone (613) 957-4467. Fax (613) 952-3039.

7.2.3 The publications referred to in par. 2.1.3 may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, U.S.A., or from the Global Info Centre Canada, 240 Catherine Street, Suite 305, Ottawa, Ontario K2P 2G8. Telephone (613) 237-4250 or 1-800-854-7179. Fax (613) 237-4251.
