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These National Standards of Canada are hereby withdrawn due to limited use and support for their revision.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

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

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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)



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CAN/CGSB-1.124-99

Supersedes CAN/CGSB-1.124-93

Thinner for Vinyl Coatings

National Standard of Canada

Canada



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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.

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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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THINNER FOR VINYL COATINGS

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

THINNER FOR VINYL COATINGS

1. SCOPE

- 1.1 This standard applies to a mixture of organic liquids for use as a solvent or thinner for coatings formulated with vinyl resins.
- 1.2 The thinner is intended for use in reducing vinyl anticorrosive primers and vinyl antifouling paint conforming to CAN/CGSB-1.122 and CAN/CGSB-1.123 respectively.
- 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)
1-GP-71 — Methods of Testing Paints and Pigments
CAN/CGSB-1.122 — Anticorrosive Vinyl Primer
CAN/CGSB-1.123 — Vinyl Antifouling Paint for Ships' Bottoms.
- 2.1.2 Health Canada
Hazardous Products (Liquid Coating Materials) Regulations.
- 2.1.3 American Society for Testing and Materials (ASTM)
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.
- 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 consist of a blend of toluene and/or xylene, methyl isobutyl ketone (MIBK), and active solvent(s) with a slower evaporation rate than xylene, in the proportions specified in par. 4.3, 4.4 and 4.5.
- 3.2 The thinner shall satisfactorily reduce the viscosity of vinyl coatings to appropriate working consistency when these materials are prepared for spray application in accordance with the manufacturer's instructions.
- 3.3 The thinner shall be a clear, colourless liquid, free from suspended matter, water and other visible impurities.
- 3.4 **Toxic Elements** — The coating shall be manufactured to conform to the requirements of the *Hazardous Products (Liquid Coating Materials) Regulations* for designated toxic elements.

4. DETAILED REQUIREMENTS

The thinner shall comply with the following detailed requirements:

		Min.	Max.	Test Method	
				CGSB 1-GP-71	ASTM
4.1	Evaporation residue, % by mass	—	0.1	20.1	—
4.2	Benzene, % by volume	—	0.1	28.5	—
4.3	Xylene and/or toluene, % by volume	—	50	28.5	—
4.4	Methyl isobutyl ketone, % by volume	—	40	28.5	—
4.5	Active solvent, (evaporation rate slower than xylene) % by volume	15	—	28.5	—
4.6	Sulphur (copper strip test)	—	1	—	D 130
4.7	Chlorinated compounds	—	Nil	73.1	—
4.8	Colour — The colour shall not be darker than No. 25 Saybolt chromometer conforming with ASTM D 156.				

5. PREPARATION FOR DELIVERY

5.1 Unless otherwise specified (par. 7.1), the thinner shall be packaged in cans with pouring spouts, and packed and marked in accordance with 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-1.124-99

NATO stock number (when required)

Manufacturer's name and address

Manufacturer's batch number

Manufacturer's code number

Date of manufacture

A cautionary note to indicate that this product is intended for use with vinyls only.

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 options must be specified in the application of this standard:

a. If packaging to be in other than cans with pouring spouts (par. 5.1)

b. Packing and marking details if normal commercial practice is not suitable (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.
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