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Series 1

Série des 1

WITHDRAWAL

June 2011

Selected standards in Series (Paints, Pigments and Related Coatings)

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June 2011

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CGSB ONGC

Canadian
General
Standards
Board

1-GP-71
No. 73-96

Supersedes 1-GP-71, Method 73.1

Methods of Testing Paints and Pigments

Beilstein Test for Chlorinated Solvents

CGSB Standard

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Canadian General Standards Board

1-GP-71
No. 73-96

Superseding 1-GP-71,
Method 73.1, October 1982

METHODS OF TESTING PAINTS AND PIGMENTS

BEILSTEIN TEST FOR CHLORINATED SOLVENTS

Prepared by the

Canadian General Standards Board

Published May 1996 by the
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Ottawa, Canada K1A 1G6

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Acknowledgment is made for the translation of this Canadian General Standards Board standard by the Translation Bureau of the Department of the Secretary of State.

CGSB Ottawa Canada K1A 1G6	METHODS OF TESTING PAINTS AND PIGMENTS	1-GP-71
	Beilstein Test for Chlorinated Solvents	No. 73-96

Supersedes 1-GP-71,
Method 73.1, October 1982

1. PURPOSE AND SCOPE

1.1 This method describes a procedure for determining qualitatively if chlorinated solvents, within a specified boiling range, are present[1]. Lower boiling-point solvents, such as carbon tetrachloride and chloroform, are considered health hazards.

1.2 The testing and evaluation of a product against this method 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 method 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. PRINCIPLE

2.1 The material under test is distilled and the resulting solvent fraction is exposed to flame to determine the presence of chlorinated compounds.

3. APPARATUS AND MATERIALS

3.1 **Steam distillation equipment.**

3.2 **Distilling flask:** 100 mL capacity.

3.3 **Bunsen burner.**

3.4 **Copper wire:** 0.8 to 1.0 mm in diameter.

4. PROCEDURE

4.1 Steam distill 100 mL of the material under test, keeping the receiver cooled in ice. Separate the solvent layer, dry and redistill, collecting all solvent within the specified boiling range of below 125°C. Wash this fraction with several times its volume of reagent water and reject the washings.

4.2 Form a small loop in the copper wire and heat in the Bunsen burner flame until it no longer colours the flame. Allow the loop to cool and then dip it into the test fraction. Immediately place the loop in the outer part of the flame and when the first luminous flame disappears, observe for the green colouration due to chlorinated compounds.

4.3 At the discretion of the testing authority additional tests, such as a sodium fusion, may be carried out.

[1] *As an alternative to this procedure, the determination may be made using gas-liquid chromatography.*

5. REPORT

Report the following information:

5.1 The material under test.

5.2 The presence or absence of chlorinated compounds.

5.3 The number of this method: 1-GP-71 No. 73-96.
