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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3351-2012

Determination of bisphenol A in epoxy resin adhesives used in buliding for import and export

进出口建筑用环氧树脂粘接剂中双酚A的测定

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Xiamen, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies two methods for determining the import and export building of bisphenol A epoxy resin adhesive, the method comprising a first liquid chromatography - mass spectrometry /Mass spectrometry (LC-MS/MS) method and the second high performance liquid chromatography (HPLC). Wherein the first normal liquid chromatography - mass spectrometry/mass spectrometry for the arbitration law.

This standard is applicable to the determination of the import and export of bisphenol A epoxy resin adhesives in.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

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3.1 Principle

Samples with ethanol ultrasonic extraction, extract was filtered by liquid chromatography - mass spectrometry/mass spectrometry and validation, external standard.

3.2 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade water as a water line with GB/T 6682 regulations.

3.2.1
acetonitrile. chromatography.

3.2.2
Ethanol. chromatography.

3.2.3
Bisphenol A (CAS No. 80-05-7). purity >=98%.

3.2.4
Standard stock solution (1000mg/L). Weigh accurately bisphenol A (3.2.3) 0.10g (accurate to 0.0001g), placed in 100mL capacity Volumetric flask, dissolve and dilute with ethanol (3.2.2).

3.2.5
standard solution. Pipette appropriate amount of standard stock solution (3.2.4), diluted to standard working solution with a suitable concentration of ethanol (3.2.2).

3.2.6
The organic phase filter. 0.22μm.

3.3 Instruments and equipment

3.3.1
Liquid chromatography - tandem mass spectrometry. equipped with electrospray ionization source.

3.3.2
vortex mixer.

3.3.3
ultrasonic cleaner (power >=220W).

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3.3.4
centrifuge. speed of not less than 4000r/min.

3.3.5
Electronic balance. a sense of the amount of 0.1mg.

3.4.1 Extraction

Said sample after mixing learn about 0.20g (accurate to 0.0001g), placed in 50mL tube with a stopper colorimetric, diluted with ethanol (3.2.2) to

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