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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3352-2012

Determination of phosphate plasticizers in adhesives used in buliding for import and export

进出口建筑用粘接剂中磷酸酯类增塑剂的测定

(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 the import and export of six buildings with an adhesive phosphate plasticizers (trimethyl phosphate, triethyl phosphate, tri-butyl phosphate, Tris - (2-chloroethyl) phosphate, tris - measuring method (2-ethylhexyl) phosphate, triphenyl phosphate) content, including a first gas phase method Chromatography - mass spectrometry (GC-MS) method and the second gas chromatography (GC). Gas chromatography - mass spectrometry for the arbitration law.

This standard applies to the import and export construction adhesive trimethyl phosphate, triethyl phosphate, tributyl phosphate, tris - (2-chloroethyl) Phosphate, tris - (2-ethylhexyl) phosphate, triphenyl phosphate content was measured.

2 The first gas chromatography - mass spectrometry (GC-MS method)

2.1 Principle

Sample was extracted with methanol, the extract was filtered by gas chromatography - mass spectrometry and validation, external standard.

2.2 Reagents and materials

2.2.1

Methanol. chromatographically pure.

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2.2.2

phosphate plasticizers standards. Table 1.

Table 1 six kinds of phosphate-based plasticizers standards

No. Name English name abbreviation CAS Number purity 1 trimethyl phosphate Trimethylphosphate TMP 512-56-1 >=97 2 triethyl phosphate Triethylphosphate TEP 78-40-0 >=97 3 tributyl phosphate Tributylphosphate TBP 126-73-8 >=97

4 III - (2-chloroethyl) phosphate Tris (2-chloroethyl) phosphate TCEP 115-96-8 >=97

5 III - (2-ethylhexyl) phosphate Tris (2-ethylhexyl) phosphate TEHP 78-42-2 >=97 6 triphenyl phosphate Triphenylphosphate TPP 115-86-6 >=97

2.2.3

Standard stock solution (1000mg/L). Weigh accurately six kinds of standard phosphate plasticizers each 0.10g (accurate to 0.0001g), Placed in 100mL flask with methanol to volume. Standard stock solution at 0 °C ~ 4 °C storage conditions, valid for two months.

2.2.4

standard solution. Pipette appropriate amount of standard stock solution (2.2.3), diluted to standard working solution with a suitable concentration of methanol (2.2.1).

2.2.5

The organic phase filter. 0.22μm.

2.3 instruments and equipment

2.3.1 Gas chromatograph with mass detector.

2.3.2 vortex mixer.

2.3.3 ultrasonic cleaner (power >=220W).

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