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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3621-2013

Determination of tris (2-chloroethyl) phosphate in toy materials. Gas chromatography. Mass spectrography

玩具材料中三（2-氯乙基）磷酸酯的测定 GC-MS法

(English Translation)

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Foreword

This standard was drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20001.4-2001 given.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. People's Republic of China Guangdong CIQ, People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the toy material gas chromatography mass tris (2-chloroethyl) phosphate MS detection method.

This standard applies to toys and children's products in the polyurethane (PU) or polyvinyl chloride (PVC) material tris (2-chloroethyl) phosphate Determination.

Principle 2

Acetone/tetrahydrofuran solvent mixture sample of tris (2-chloroethyl) phosphate ultrasonic extraction, the extract using gas chromatography Spectrum/mass spectrometry (GC/MS) measurement, external standard.

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3 Reagents and materials

Unless otherwise stated, use only reagents of analytical grade and above.

3.4 Tris (2-chloroethyl) phosphate standards (CAS No. 115-96-8). not less than 97% purity

3.5 standard stock solution. Weigh accurately tris (2-chloroethyl) phosphate standard (3.4) (accurate to 0.1mg), with acetone/tetrahydrofuran mixture Solution (3.3) formulated into stock solution 500mg/L, and at 4 °C refrigerator stored.

3.6 standard solution. A standard stock solution (3.5) with acetone/tetrahydrofuran mixed solution of stepwise diluted to 0.5mg/L, 1.0mg/L, 2.0mg/L, 5.0mg/L of standard working solution at 4 °C refrigerator stored.

4 Instruments and equipment

4.1
Gas chromatography/mass spectrometry (GC/MSD). with EI source.

4.2
Ultrasound. maximum power of not less than 1400W, with temperature control.

4.3
Millipore filter (organic phase). Aperture 0.45μm.

4.4
Container. 50mL of stoppered bottles.

4.5
Analysis of balance. a sense of the amount of 0.1mg.

5.1 Preparation

There will be a representative sample of about 2mm x 2mm cut the following pieces, and mix. Weigh about 1g (accurate to 1mg) Two samples (for Parallel measurement).

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