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ICS 59.080.01
CCS W04

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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3508-2013

Determination of hexabromocyclododecane in import and export textiles. Liquid chromatography tandem mass spectrometry method

进出口纺织品中六溴环十二烷的测定 液相色谱-质谱/质谱法

(English Translation)

Issued on: March 1, 2013 **Implemented on: September 16, 2013**

Issued by: General Administration of Customs

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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. China Inspection and Quarantine Science Research Institute, People's Republic of China Jiangsu Exit Inspection and Quarantine, the People's Republic of China Shanghai Exit Inspection and Quarantine and the State, Donghua University.

1 Scope

This standard specifies the import and export of textiles Six HBCD (see Appendix A) liquid chromatography - mass spectrometry/mass spectrometry.

This standard applies to the import and export textiles alpha- HBCD alkyl, beta- HBCD, dodecane measured gamma- hexabrominated ring.

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 Principle 3 Textile sample n-hexane. acetone = 1/1 (volume ratio) mixture of accelerated solvent extraction as the extraction solvent, solid phase extract After extraction (SPE), liquid chromatography - mass spectrometry/mass spectrometry determination, external standard.

4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade water as a water GB/T 6682 regulations.

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4.1
dichloromethane.

4.2
n-hexane.

4.3
acetone.

4.4
Methanol. HPLC grade.

4.5
acetonitrile. HPLC grade.

4.6
dichloromethane - hexane mixture. amount of methylene chloride and n-hexane 40mL 60mL, mix.

4.7
n-hexane - acetone mixture. amount of n-hexane and acetone each 50mL, mix.

4.8
alpha- HBCD alkyl Standard Substance. CAS No. 134237-50-6, purity not less than 99%.

4.9
beta- HBCD alkyl Standard Substance. CAS No. 134237-51-7, purity not less than 99%.

4.10
gamma- HBCD alkyl Standard Substance. CAS No. 134237-52-8, purity not less than 99%.

4.11
Standard stock solution preparation. the exact amount of each 100μg/mL of alpha- HBCD alkyl, beta- HBCD dioxane, gamma- hexabromocyclododecane ten Dioxane standard solution of 0.5mL, transferred to a 10mL volumetric flask with methanol to volume, formulated as alpha- HBCD alkyl, beta- hexa Cyclododecane, gamma- HBCD alkoxy each concentration 5μg/mL standard stock solution stored at -20 °C for.

4.12
SPE. matrix graphite carbon black/ethylene diamine -N- propyl group, 500mg/500mg, 6mL, or equivalent person. before use Sequentially with 10mL dichloromethane - hexane mixture (4.6), 10mL methylene chloride (4.1), 10mL of n-hexane (4.2) activation.

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