

CERTIFIED  
REFERENCE  
MATERIALS

# Consumer Safety Compliance Standards

**New regulations are constantly being enacted to protect Consumers from a variety of potentially dangerous chemicals and elements.** The recent regulations worldwide have restricted levels of heavy metals in consumer products and waste electronics. Regulations have also been enacted to control a variety of phthalates in children's products. SPEX CertiPrep has continued to lead the certified reference materials field by creating a line of Consumer Safety Compliance Standards for use with these new testing regulations. SPEX CertiPrep was founded in 1954 to provide superior Certified Reference Materials for spectroscopy and chromatography. We have a full line of AA, ICP, ICP-MS, IC, GC, GC/MS, LC, LC/MS, and many other products that can be used in laboratories around the world. For over 50 years, we have built our reputation by providing chemists and environmental scientists with products that exhibit Quality, Reliability, and Convenience. Your Science is Our Passion.®

## INORGANIC & ORGANIC

SPEX CertiPrep is the industry leader for over 60 years in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research.

### ■ Benefits of SPEX CertiPrep's Compliance Standards

- SPEX CertiPrep's Compliance Standards can be used in many worldwide testing methods and directives for phthalates and heavy metals
- Concentration of components guaranteed
- Stability of each standard guaranteed
- Custom Packaging readily available
- Custom blends manufactured upon request based on your individual needs

### ■ UL and A2LA Stamp of Approval

- Quality system complies with ISO 9001:2008 — Registered with UL-DQS.
- Aqueous standards manufactured to meet the requirements of ISO 17025:2005 and ISO Guide 34-2009 — Accredited by A2LA.

### ■ SPEX CertiPrep Consumer Safety Compliance Standards can be used with the following instrumentation:

- ICP, Inductively Coupled Plasma
- ICP/MS, Inductively Coupled Plasma-Mass Spectroscopy
- GC/MS, Gas Chromatography-Mass Spectrometry (IE, CI)
- GC, Gas Chromatography (FID, ECD, PID, TCD)
- HPLC, High Performance Liquid Chromatography
- HPLC/MS, High Performance Liquid Chromatography-Mass Spectrometry



### ■ Value of SPEX CertiPrep Compliance Standards:

- SPEX CertiPrep provides the highest quality of standards available
- Uncertainty of standard is reported on the Certificate of Analysis
- Weights used are traceable to NIST
- Manufactured by experienced chemists to ensure highest quality standards



Accredited by A2LA for ISO 17025 and Guide 34, and Certified by UL-DQS for ISO 9001.

Your Science is Our Passion.®

**SPEX CertiPrep**®

Inorganic & Organic Certified Reference Materials

## Phthalates in PVC QC Standards

SPEX CertiPrep's Phthalates in Polyvinyl standards are designed to meet the regulations required for testing of PVC toys and other consumer products.

### Phthalates in Poly(vinyl chloride) Standard

Catalog #: CRM-PVC001 Volume: 1.5 g  
Matrix: Poly(vinyl) Chloride

Component	Concentration
Diisodecyl phthalate (DIDP)	30000 µg/g
Diisononyl phthalate (DINP)	30000 µg/g
bis(2-Ethylhexyl)phthalate (DEHP)	3000 µg/g
Butylbenzyl phthalate (BBP)	3000 µg/g
Diethyl phthalate (DEP)	3000 µg/g
Dimethyl phthalate (DMP)	3000 µg/g
Di-n-butyl phthalate (DBP)	3000 µg/g
Di-n-octyl phthalate (DOP)	3000 µg/g

### Poly(vinyl chloride) Phthalate Blank

Catalog #: CRM-PVCBLK Volume: 1.5 g  
Matrix: Poly(vinyl) Chloride

## Extractable Metals in Plastic Toys Standards

SPEX CertiPrep's Extractable Metals in Toys Standards can assist the analyst in their testing for heavy metals in children's products. These standards are designed for use in many testing methods including:

US Methods: CPSC-CH-E1001-08; ASTM F963-08

EU Regulations: EN71 Part3, EC

Directives: 94/62/EC Art 11 & 91/388 EC

Kit of 2 Extractable Metals in Plastic Toys Standards

### Catalog#: EMPT-1:

(Contains standards EMPT-1A & EMPT-1B, described below)

EMPT-1A (not available separately)

Contents: 1000 mg/L: As, Cd, Cr, Pb, Se, Sb

Matrix: 10% HNO<sub>3</sub>/tr. Tart/tr. HF

Volume: 125 mL

EMPT-1B (not available separately)

Contents: 1000 mg/L: Ba, Hg

Matrix: 10% HNO<sub>3</sub>

Volume: 125 mL

Kit of 3 Extractable Metals in Plastic Toy Standards

### Catalog#: EMPT-2:

(Contains EMPT-1A & EMPT-1B described above and INT-EM1 below)

INT-EM1: Interference Check Standard (not available separately)

Contents: 2000 mg/L: Al, Ca, Fe, Mg

20 mg/L: As, Cd, Cr, Pb, Se, Sb

Matrix: 10% HNO<sub>3</sub>/tr. Tart/tr. HF

Volume: 125 mL

## Phthalates in Polyethylene QC Standards

SPEX CertiPrep's Phthalates in Polyethylene QC standards are designed to be used with the current regulations and testing methods including:

US Method: CPSC-CH-C1001.09.3

EU Directive: 2005/84/EC

### 8 Regulated Phthalates Standard

Catalog #: CRM-PE001 Volume: 5 g  
Matrix: Polyethylene Powder

Component	Concentration
bis(2-Ethylhexyl) phthalate (DEHP)	3000 µg/g
Butylbenzyl phthalate (BBP)	3000 µg/g
Di-n-butyl phthalate (DBP)	3000 µg/g
Di-n-octyl phthalate (DOP)	3000 µg/g
Diethyl phthalate (DEP)	3000 µg/g
Dimethyl phthalate (DMP)	3000 µg/g
Diisononyl phthalate (DINP)	30000 µg/g
Diisodecyl phthalate (DIDP)	30000 µg/g

### 8 Regulated Phthalates plus BPA Standard

Catalog #: CRM-PE002 Volume: 5 g  
Matrix: Polyethylene Powder

Component	Concentration
Bisphenol A (BPA)	3000 µg/g
bis(2-Ethylhexyl) phthalate (DEHP)	3000 µg/g
Butylbenzyl phthalate (BBP)	3000 µg/g
Di-n-butyl phthalate (DBP)	3000 µg/g
Di-n-octyl phthalate (DOP)	3000 µg/g
Diethyl phthalate (DEP)	3000 µg/g
Dimethyl phthalate (DMP)	3000 µg/g
Diisononyl phthalate (DINP)	30000 µg/g
Diisodecyl phthalate (DIDP)	30000 µg/g

### Polyethylene Matrix Blank

Catalog #: CRM-PEBLK Volume: 5 g  
Matrix: Polyethylene Powder

## Certified RoHS/WEEE Check Standard

Heavy Metal compounds in consumer goods such as toys and electronics are regulated by the RoHS/WEEE directives issued by countries around the world. Manufacturers of consumer goods are required to check their products for levels of these heavy metals prior to shipment to the RoHS/WEEE regulated countries. Concentrations vary by lot.

RoHS/WEEE Check Standard

### Catalog#: ROHS-25

Contents: Br, Pb, Hg, Cr, Cd

Matrix: Polyethylene

Volume: 25 g

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