

REPORT

Technical Report: (5214)262-0127

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SEPTEMBER 30, 2014





CONSUMER PRODUCTS SERVICES DIVISION

CHOON'S DESIGN

Technical Report: (5214)262-0127

SEPTEMBER 30, 2014

Date Received: SEPTEMBER 19, 2014

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AMANDA ANKOSKY
CHOON'S DESIGN
48813 WEST ROAD

Sample Description:	FINGER LOOMS	PO No.:	N/A
Manufacturer:	CHOON'S DESIGN	Style:	R0028
Buyer:	CHOON'S DESIGN	Country of Destination:	US AND EUROPE
Country of Origin:	CHINA	SKU No.:	812317020769
Color:	VIOLET, YELLOW, GREEN, BLUE, PINK, RED	UPC Code:	812317020769
Labeled Age Grade:	6+		
Appropriate Age Grade:	CHILDREN, 6+ YEARS OR AGES (US) TOYS, 6 + YEARS OF AGES (EUROPE)		
Client Specified Age Grade:	NOT SPECIFIED		
Tested Age Grade:	CHILDREN, 6+ YEARS OR AGES (US) TOYS, 6 + YEARS OF AGES (EUROPE)		
Previous Report No.:	N/A		



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Test properties	Rating	Comments
For US		
16 CFR 1500, FEDERAL HAZARDOUS SUBSTANCES ACT REGULATIONS	Pass	See Page 4
FLAMMABILITY (16 CFR SECTION 1500.316)(VI))	Pass	See Page 4
Total Lead Content in Surface Coating – United States Consumer Product Safety Improvement Act (CPSIA), Section 101(a)(2)	Pass	See Page 5
TOTAL LEAD CONTENT IN SUBSTRATE –U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, TITLE I, SECTION 101	Pass	See Pages 6 - 7
CALIFORNIA PROPOSITION 65– LEAD CONTENT	Pass	See Pages 8 – 11
CALIFORNIA PROPOSITION 65– CADMIUM CONTENT	Pass	See Page 12
For EU		
MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2011+A2:2013)	Pass	See Pages13 - 15
FLAMMABILITY (EN 71 PART 2: 2011)	Pass	See Page 16
Heavy Metals (EN 71 PART 3: 2013)	NA	See Page 16 (Note)
Heavy Metals Content in Packaging and Packaging Waste – 94/62/EC and 2004/12/EC	Pass	See Page 17
PHTHALATES CONTENT - (EC) NO. 1907/2006,	Pass	See Pages 18 - 20
Benzene Content in Toys or Parts of Toys - (EC) No. 1907/2006	Pass	See Page 21
Total Cadmium Content – Regulation (EC) No. 1907/2006	Pass	See Pages 22 - 23
TOTAL LEAD CONTENT IN JEWELLERY - (EC) No. 1907/2006 REACH,	Pass	See Page 24
Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH	Pass	See Pages 25 - 53



EXECUTIVE SUMMARY:

- Tracking label was provide on the packaging and comply with the CPSIA 103 Tracking label for children Products (Decoding was not performed)
- The submitted sample complying with the mechanical hazards requirements of 16 CFR 1500, "Federal Hazardous Substances Act Regulations".

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable		
Drop	4 x 3 ft.	Section 8.7.1
Torque	4-in-lbs	Section 8.8
Tension	15 lbs	Section 8.9
Compression	30 lbs	Section 8.10

PHYSICAL AND MECHANICAL HAZARDS (FHSA 16 CFR 1500)

Part	Requirement	Result
16 CFR 1500.47 & 1500.86(a)(6)	Sound Pressure Level – Toy Cap	N/A
16 CFR 1501	Small Parts	N/A
16 CFR 1500.49	Sharp Edges	M
16 CFR 1500.48	Sharp Points	M
16 CFR 1511	Pacifier	N/A
16 CFR 1510	Rattles	N/A
16 CFR 1500.18(a)(17)	Small Ball	N/A
16 CFR 1500.19	Small Objects, Small Balls, Marbles and Balloons	N/A
16 CFR 1500.86	Toy Caps	N/A
16 CFR 1500.14(b)(8)	Art Materials	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

For Rubber bands and c-clips, major axis of sample was less than one inch, therefore flammability test (16 CFR section 1500.44) was not conducted.

For Finger loom, clip

FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi)

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	M



Total Lead Content in Surface Coating – United States Consumer Product Safety Improvement Act (CPSIA), Section 101(a)(2)

Test Method : U.S. CPSC-CH-E1003-09.1

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
23	all coating (>4 colors)	instruction manual	1-6

Maximum Allowable Limit :	90 mg/kg
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-	Unit	Result		
Test Item(s)	-	23	-	-
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	< 10	-	-
Conclusion	-	PASS	-	-

Note / Key :

ND = Not detected ">" = Greater than
 mg/kg = milligram(s) per
 kilogram
 Potential Total Lead (Pb) = Estimated lead content per component is based on calculation by
 component individual weight
 Detection Limit (mg/kg) : 10



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TOTAL LEAD CONTENT IN SUBSTRATE –U.S. Consumer Product Safety Improvement Act of 2008, Title I, Section 101

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	Clear green plastic	finger loom and clip	1
2	Clear blue plastic	finger loom and clip	2
3	Clear pink plastic	finger loom and clip	3
4	Clear red plastic	finger loom and clip	4
5	Clear yellow plastic	finger loom and clip	5
6	Clear purple plastic	finger loom and clip	6
7	Light green soft plastic	rubber band	1
8	Dull white soft plastic	rubber band	1, 5
9	Dull black soft plastic	rubber band	1, 5
10	Translucent white soft plastic	rubber band	2
11	Blue soft plastic	rubber band	2
12	Deep blue soft plastic	rubber band	2
13	Pink soft plastic	rubber band	3
14	Yellow soft plastic	rubber band	5
15	Purple/ light blue soft plastic	rubber band	6
16	Purple/ pink soft plastic	rubber band	6
17	Black/ grey soft plastic	rubber band	6
18	Black/ white soft plastic	rubber band	3, 6
19	White/ red soft plastic	rubber band	6
20	Sharp orange/ pale blue soft plastic	rubber band	6
21	Sharp orange/ dark blue soft plastic	rubber band	6
22	Green/ dull blue soft plastic	rubber band	6

Maximum Allowable Limit :	100 mg/kg
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-	Unit	Result		
Test Item(s)	-	1+2+3	4+5+6	7+8+9
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	< 10	< 10	< 10
Conclusion	-	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	-	10+11+12	13+19	14+22
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	< 10	< 10	< 10
Conclusion	-	PASS	PASS	PASS



-	Unit	Result		
Test Item(s)	-	15+16	17+18	20+21
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	< 10	< 10	< 10
Conclusion	-	PASS	PASS	PASS

Note / Key :

ND = Not detected ">" = Greater than
 mg/kg = milligram(s) per % = percent 1 % = 10000 mg/kg
 kilogram
 Detection Limit (mg/kg) : 10

Remark :

- According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices; Final Rule, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.

* The total lead content in substrate (CPSIA) test result of rubber bands(style4) and c –clip (styles 1-6) refer to the report BV#52141890192



-The material and total lead content in jewelry requirements of California Proposition 65 Settlement of Alameda Superior Court Case RG-04-162075.

TOTAL LEAD CONTENT IN JEWELRY (California Proposition 65 Settlement of Alameda Superior Court Case RG-04-162075)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry Or Inductively Coupled Plasma Spectrophotometry

Classification: Jewelry such as anklet, arm cuff, bracelet, brooch, chain, crown, cuff link, decorated hair accessories, earring, necklace, pin and ring NOT for first time body piercing or children's jewelry

		Maximum allowable limit
Analyte		Lead
Type: Band I	Elastic, fabric, ribbon, rope and string / Nature decorative materials / Plastics or rubber	200 mg/kg
Type: Band II	Electroplated Metal Alloys	60000 mg/kg
Type: Band III	Surface Coatings / Other Components	600 mg/kg
Type: Band IV	Un-plated Non-Class I metal #	15000 mg/kg

Analyte				Lead (Pb)	Conclusion
Sample Description				Result	
Color / Component	Location	Style	(mg/kg)		
Type: Band I					
(A)	Light green soft plastic	rubber band	1	LT 10	PASS
	Dull white soft plastic	rubber band	1, 5		
	Dull black soft plastic	rubber band	1, 5		
(B)	Translucent white soft plastic	rubber band	2	LT 10	PASS
	Blue soft plastic	rubber band	2		
	Deep blue soft plastic	rubber band	2		
(C)	Pink soft plastic	rubber band	3	LT 10	PASS
	White/ red soft plastic	rubber band	6		
(D)	Yellow soft plastic	rubber band	5	LT 10	PASS
	Green/ dull blue soft plastic	rubber band	6		
(E)	Purple/ light blue soft plastic	rubber band	6	LT 10	PASS
	Purple/ pink soft plastic	rubber band	6		
(F)	Black/ grey soft plastic	rubber band	6	LT 10	PASS
	Black/ white soft plastic	rubber band	3, 6		
(G)	Sharp orange/ pale blue soft plastic	rubber band	6	LT 10	PASS
	Sharp orange/ dark blue soft plastic	rubber band	6		

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than



CR = adjusted analytical result

* = Average of duplicate analysis

Class I Metal Refers to Stainless and surgical steels, Karat gold, Sterling silver, Platinum group metals

- The material and total lead content in jewelry requirements of California Health and Safety Code, Sections 25214.1 to 25214.4.2.

TOTAL LEAD CONTENT IN JEWELRY (California Health and Safety Code, Sections 25214.1 to 25214.4.2)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry Or Inductively Coupled Plasma Spectrophotometry

Classification: Anklet, arm cuff, bracelet, brooch, chain, crown, cuff link, hair accessories, earring, necklace, pin, ring, tie clip, ornamental watches, jewelry placed in the mouth that are NOT for first time body piercing or children's jewelry; detachable jewelry on clothing and footwear (such as charms).

		Maximum allowable limit	
Analyte		Lead	
Type: Band I	Elastic, fabric, ribbon, rope and string / Nature decorative materials / Plastics or rubber	200 mg/kg	
Type: Band II	Electroplated Metal Alloys	60000 mg/kg	
Type: Band III	Surface Coatings / Other Components	600 mg/kg	
Type: Band IV	Un-plated Non-Class I metal #	15000 mg/kg	



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Analyte			Lead (Pb)	Conclusion	
Sample Description			Result		
Color / Component	Location	Style	(mg/kg)		
Type: Band I					
(A)	Light green soft plastic	rubber band	1	LT 10	PASS
	Dull white soft plastic	rubber band	1, 5		
	Dull black soft plastic	rubber band	1, 5		
(B)	Translucent white soft plastic	rubber band	2	LT 10	PASS
	Blue soft plastic	rubber band	2		
	Deep blue soft plastic	rubber band	2		
(C)	Pink soft plastic	rubber band	3	LT 10	PASS
	White/ red soft plastic	rubber band	6		
(D)	Yellow soft plastic	rubber band	5	LT 10	PASS
	Green/ dull blue soft plastic	rubber band	6		
(E)	Purple/ light blue soft plastic	rubber band	6	LT 10	PASS
	Purple/ pink soft plastic	rubber band	6		
(F)	Black/ grey soft plastic	rubber band	6	LT 10	PASS
	Black/ white soft plastic	rubber band	3, 6		
(G)	Sharp orange/ pale blue soft plastic	rubber band	6	LT 10	PASS
	Sharp orange/ dark blue soft plastic	rubber band	6		

mg/kg = milligrams per kilogram (ppm=parts per million)
 CR = adjusted analytical result

LT = Less Than
 * = Average of duplicate analysis

Class I Metal Refers to Stainless and surgical steels, Karat gold, Sterling silver, Platinum group metals



- The total lead content requirement(s) in jewelry according to the California Proposition 65 settlement(s) of Alameda Superior Court Case Number(s) RG 10-545680 and RG 10-545687.

CALIFORNIA PROPOSITION 65 JEWELRY REQUIREMENTS (Alameda Superior Court Case Numbers RG 10-545680 and RG-10-545687)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry Or Inductively Coupled Plasma Spectrophotometry

		Maximum allowable limit	
Analyte		(Lead)	
Type I	Paints and surface coating	90 mg/kg	
Type II	Substrates	200 mg/kg	

Analyte			Lead (Pb)	Conclusion	
Sample Description			Result (mg/kg)		
Color / Component	Location	Style			
Type II					
(A)	Light green soft plastic	rubber band	1	LT 10	PASS
	Dull white soft plastic	rubber band	1, 5		
	Dull black soft plastic	rubber band	1, 5		
(B)	Translucent white soft plastic	rubber band	2	LT 10	PASS
	Blue soft plastic	rubber band	2		
	Deep blue soft plastic	rubber band	2		
(C)	Pink soft plastic	rubber band	3	LT 10	PASS
	White/ red soft plastic	rubber band	6		
(D)	Yellow soft plastic	rubber band	5	LT 10	PASS
	Green/ dull blue soft plastic	rubber band	6		
(E)	Purple/ light blue soft plastic	rubber band	6	LT 10	PASS
	Purple/ pink soft plastic	rubber band	6		
(F)	Black/ grey soft plastic	rubber band	6	LT 10	PASS
	Black/ white soft plastic	rubber band	3, 6		
(G)	Sharp orange/ pale blue soft plastic	rubber band	6	LT 10	PASS
	Sharp orange/ dark blue soft plastic	rubber band	6		

mg/kg = milligrams per kilogram (ppm=parts per million)
 * = Average of duplicate analysis

LT = Less Than



-The total cadmium content in jewelry requirements of California Proposition 65 Settlement of Alameda Superior Court Case RG-10-514803.

TOTAL CADMIUM CONTENT IN JEWELRY (California Proposition 65 Settlement of Alameda Superior Court Case RG-10-514803)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry Or Inductively Coupled Plasma Spectrophotometry

Analyte	Cadmium	
Maximum allowable limit	300 mg/kg	

Analyte			Cadmium (Cd)	Conclusion
Sample Description			Result (mg/kg)	
Color / Component	Location	Style		
(A) Light green soft plastic	rubber band	1	LT 10	PASS
Dull white soft plastic	rubber band	1, 5		
Dull black soft plastic	rubber band	1, 5		
(B) Translucent white soft plastic	rubber band	2	LT 10	PASS
Blue soft plastic	rubber band	2		
Deep blue soft plastic	rubber band	2		
(C) Pink soft plastic	rubber band	3	LT 10	PASS
White/ red soft plastic	rubber band	6		
(D) Yellow soft plastic	rubber band	5	LT 10	PASS
Green/ dull blue soft plastic	rubber band	6		
(E) Purple/ light blue soft plastic	rubber band	6	LT 10	PASS
Purple/ pink soft plastic	rubber band	6		
(F) Black/ grey soft plastic	rubber band	6	LT 10	PASS
Black/ white soft plastic	rubber band	3, 6		
(G) Sharp orange/ pale blue soft plastic	rubber band	6	LT 10	PASS
Sharp orange/ dark blue soft plastic	rubber band	6		

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

* = Average of duplicate analysis

* The California proposition 65 test result of rubber bands (style 4) and c-clip (all styles) refer to the report BV# 52141890192.



- The submitted sample meets the mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2011, incorporating amendment A2: 2013 clauses 1-7. (PASS)

**MECHANICAL & PHYSICAL PROPERTIES
 (EN 71: PART 1 – 2011+A2:2013)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA

**MECHANICAL & PHYSICAL PROPERTIES
 (EN 71: PART 1 – 2011+A2:2013)**

Subclause	Requirement	Result
4.16	Heavy immobile toys	NA
4.17.1	Projectiles – General	NA
4.17.2	Projectiles toys without stored energy	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.7	Bows and arrows	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5	Cleaning instruction for item intended for child under 3 years of age	NA
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section < 2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Filings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4 &	Cords on toys	NA
5.4(a)	Cords connected to self-retraction mechanism or in pull along toys	NA
5.4(b) & 7.22	Cords and chains that can form tangled loop or noose	NA
5.4(c) & 7.22	Fixed loop of cords or chains	NA
5.4(d)	Nooses	NA

**MECHANICAL & PHYSICAL PROPERTIES
 (EN 71: PART 1 – 2011+A2:2013)**

Subclause	Requirement	Result
5.4(e)	Self-retraction mechanism	NA
5.4(f) & 7.11	Toy across cradle, cot or perambulator	NA
5.4(g) & 7.22	Cords and chains with free end (exclude pull along toy)	NA
5.4(h)	Cords and chains with free end on pull along toy	NA
5.4(i) & 7.21	Electrical cables	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
WARNINGS, INSTRUCTIONS FOR USE		
7	CE Mark	M
7	Manufacturer name and address	M
7	Importer name and address	M
7	Product Identification	M
7.1	General	M
7.2	Toys not intended for children under 36 months	NA
7.5	Functional toys	NA



- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011.

FLAMMABILITY (EN 71 PART 2: 2011)

Subclause	Requirement	Result
4.1	Cellulose nitrate	M (Not Present)
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

Note: The European Standard, "Safety of Toys", EN 71 Part 3: 2013, Clause 1- scope states that toys intended for children over the age of six years and their parts are not covered by this part of the standard. Therefore, the samples are exempt from the migration of certain elements requirements of EN 71 Part 3: 2013.



Heavy Metals Content in Packaging and Packaging Waste – 94/62/EC and 2004/12/EC

Parameter	Unit	Result	Result	Result	Maximum Allowable Limit
		24	25	26	
Total Lead (Pb)	mg/kg	< 5	< 5	< 5	-
Total Cadmium (Cd)	mg/kg	< 5	< 5	< 5	-
ChromiumVI (CrVI)	mg/kg	< 5 *	< 5 *	< 5 *	-
Total Mercury (Hg)	mg/kg	< 5	< 5	< 5	-
Sum	mg/kg	< 20	< 20	< 20	100
Conclusion	-	PASS	PASS	PASS	-

Parameter	Unit	Result	Result	Result	Maximum Allowable Limit
		27	28	29	
Total Lead (Pb)	mg/kg	< 5	< 5	< 5	-
Total Cadmium (Cd)	mg/kg	< 5	< 5	< 5	-
ChromiumVI (CrVI)	mg/kg	< 5 *	< 5 *	< 5 *	-
Total Mercury (Hg)	mg/kg	< 5	< 5	< 5	-
Sum	mg/kg	< 20	< 20	< 20	100
Conclusion	-	PASS	PASS	PASS	-

- 24 clear plastic/ glue (display container, style 1-6)
- 25 multicolor printed white paper card (hanger card, style 1-6)
- 26 Transparent plastic (plastic bag of rubber band, style 1-6)
- 27 clear adhesive tape (plastic bag of c-clip, style 1-6)
- 28 shiny silvery plastic sticker (seal, style 1-6)
- 29 Clear laminated multicolor printed white paper sticker (display container, style 1-6)

Note: mg/kg = milligram per kilogram
 "<" = less than

Method: 1. Pb, Cd & Hg: Sample was digested with nitric acid and then analyzed by Inductively Coupled Argon Plasma Spectrometer or Inductively Coupled Argon Plasma Mass Spectrometer.
 2. Cr(VI): Sample was digested with alkaline mixtures and then analyzed by UV-VIS spectrophotometer.

* Remark: Total chromium was determined.



Phthalates Content - Regulation (EC) No. 1907/2006, Annex XVII, Item No. 51 and 52

Test Method : Solvent extraction with Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS) analysis.

- Tested Item(s)** :
- 1 Clear green plastic (finger loom and clip, style 1)
 - 2 Clear blue plastic (finger loom and clip, style 2)
 - 3 Clear pink plastic (finger loom and clip, style 3)
 - 4 Clear red plastic (finger loom and clip, style 4)
 - 5 Clear yellow plastic (finger loom and clip, style 5)
 - 6 Clear purple plastic (finger loom and clip, style 6)
 - 7 Light green soft plastic (rubber band, style 1)
 - 8 Dull white soft plastic (rubber band, style 1, 5)
 - 9 Dull black soft plastic (rubber band, style 1, 5)
 - 10 Translucent white soft plastic (rubber band, style 2)
 - 11 Blue soft plastic (rubber band, style 2)
 - 12 Deep blue soft plastic (rubber band, style 2)
 - 13 Pink soft plastic (rubber band, style 3)
 - 14 Yellow soft plastic (rubber band, style 5)
 - 15 Purple/ light blue soft plastic (rubber band, style 6)
 - 16 Purple/ pink soft plastic (rubber band, style 6)
 - 17 Black/ grey soft plastic (rubber band, style 6)
 - 18 Black/ white soft plastic (rubber band, style 3, 6)
 - 19 White/ red soft plastic (rubber band, style 6)
 - 20 Sharp orange/ pale blue soft plastic (rubber band, style 6)
 - 21 Sharp orange/ dark blue soft plastic (rubber band, style 6)
 - 22 Green/ dull blue soft plastic (rubber band, style 6)

Maximum Allowable Limit:	DBP, BBP and DEHP: 0.10 % (Each); 0.10 % (Sum) DNOP, DIDP and DINP: 0.10 % (Each); 0.10 % (Sum)
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Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1+2+3	DBP	< 0.005	%	PASS
	BBP	< 0.005		
	DEHP	< 0.005		
	Sum of DBP, BBP & DEHP	< 0.015		
	DNOP	< 0.005		
	DIDP	< 0.005		
	DINP	< 0.005		
	Sum of DNOP, DIDP & DINP	< 0.015		



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4+5+6	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
7+8+9	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
10+11+12	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
13+19	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
14+22	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
15+16	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS



17+18	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS
20+21	DBP BBP DEHP Sum of DBP, BBP & DEHP DNOP DIDP DINP Sum of DNOP, DIDP & DINP	< 0.005 < 0.005 < 0.005 < 0.015 < 0.005 < 0.005 < 0.005 < 0.015	%	PASS

Note:

ND = Not detected ">" = More than
 % = percent = 10000 mg/kg mg/kg = milligram per kilogram
 Detection Limit (%): Each 0.005; Sum (DBP, BBP & DEHP) 0.015; Sum (DNOP, DIDP & DINP) 0.015

Remark:

- The list of phthalates is summarized in table of Appendix.

APPENDIX

List of Phthalates:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	4	Di-n-octyl phthalate (DNOP)	117-84-0
2	Dibutyl phthalate (DBP)	84-74-2	5	Di-iso-nonyl phthalate (DINP)	28553-12-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	6	Di-iso-decyl phthalate (DIDP)	26761-40-0

* The phthalates test result of Rubber bands (style4) and c-clip(all styles) refer to the report BV#52141890192



Benzene Content in Toys or Parts of Toys - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 5, Point 1

Test Method : Sample was extracted with organic solvent extraction and analysis by Head Space Gas Chromatograph Mass Spectrometer in Negative (HSGCMS)

- Test Item :
- 1 Clear green plastic (finger loom and clip, style 1)
 - 2 Clear blue plastic (finger loom and clip, style 2)
 - 3 Clear pink plastic (finger loom and clip, style 3)
 - 4 Clear red plastic (finger loom and clip, style 4)
 - 5 Clear yellow plastic (finger loom and clip, style 5)
 - 6 Clear purple plastic (finger loom and clip, style 6)
 - 7 Light green soft plastic (rubber band, style 1)
 - 8 Dull white soft plastic (rubber band, style 1, 5)
 - 9 Dull black soft plastic (rubber band, style 1, 5)
 - 10 Translucent white soft plastic (rubber band, style 2)
 - 11 Blue soft plastic (rubber band, style 2)
 - 12 Deep blue soft plastic (rubber band, style 2)
 - 13 Pink soft plastic (rubber band, style 3)
 - 14 Yellow soft plastic (rubber band, style 5)
 - 15 Purple/ light blue soft plastic (rubber band, style 6)
 - 16 Purple/ pink soft plastic (rubber band, style 6)
 - 17 Black/ grey soft plastic (rubber band, style 6)
 - 18 Black/ white soft plastic (rubber band, style 3, 6)
 - 19 White/ red soft plastic (rubber band, style 6)
 - 20 Sharp orange/ pale blue soft plastic (rubber band, style 6)
 - 21 Sharp orange/ dark blue soft plastic (rubber band, style 6)
 - 22 Green/ dull blue soft plastic (rubber band, style 6)

Maximum Allowable Limit	5 mg/kg
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Parameter	Unit	Result		
		1+2+3+4+5	6+7+8+9+10	11+12+13
	mg/kg	< 1	< 1	< 1
Conclusion	-	PASS	PASS	PASS

Parameter	Unit	Result		
		14+15+16	17+18+19	20+21+22
	mg/kg	< 1	< 1	< 1
Conclusion	-	PASS	PASS	PASS

Note: ND = Not Detected
 mg/kg = milligrams per kilogram
 Detection limit (mg/kg): 1

* The Benzene content test result of rubber bands (style4) and c-clip(all styles) refer to the report BV#52141890192.



Total Cadmium Content – Regulation (EC) No. 1907/2006 Annex XVII Item No. 23

Parameter	Unit	Result			Maximum Allowable Limit
		1+2+3	4+5+6	7+8+9+10	
Total Cadmium (Cd)	mg/kg	< 10	< 10	< 10	100
Conclusion	-	PASS	PASS	PASS	-

Parameter	Unit	Result			Maximum Allowable Limit
		11+20+21	12+13+22	14+15+16	
Total Cadmium (Cd)	mg/kg	< 10	< 10	< 10	100
Conclusion	-	PASS	PASS	PASS	-

Parameter	Unit	Result	Maximum Allowable Limit
		17+18+19	
Total Cadmium (Cd)	mg/kg	< 10	100
Conclusion	-	PASS	-

Parameter	Unit	Result	Maximum Allowable Limit
		23	
Total Cadmium (Cd)	mg/kg	< 10	1000
Conclusion	-	PASS	-



- 1 Clear green plastic (finger loom and clip, style 1)
- 2 Clear blue plastic (finger loom and clip, style 2)
- 3 Clear pink plastic (finger loom and clip, style 3)
- 4 Clear red plastic (finger loom and clip, style 4)
- 5 Clear yellow plastic (finger loom and clip, style 5)
- 6 Clear purple plastic (finger loom and clip, style 6)
- 7 Light green soft plastic (rubber band, style 1)
- 8 Dull white soft plastic (rubber band, style 1, 5)
- 9 Dull black soft plastic (rubber band, style 1, 5)
- 10 Translucent white soft plastic (rubber band, style 2)
- 11 Blue soft plastic (rubber band, style 2)
- 12 Deep blue soft plastic (rubber band, style 2)
- 13 Pink soft plastic (rubber band, style 3)
- 14 Yellow soft plastic (rubber band, style 5)
- 15 Purple/ light blue soft plastic (rubber band, style 6)
- 16 Purple/ pink soft plastic (rubber band, style 6)
- 17 Black/ grey soft plastic (rubber band, style 6)
- 18 Black/ white soft plastic (rubber band, style 3, 6)
- 19 White/ red soft plastic (rubber band, style 6)
- 20 Sharp orange/ pale blue soft plastic (rubber band, style 6)
- 21 Sharp orange/ dark blue soft plastic (rubber band, style 6)
- 22 Green/ dull blue soft plastic (rubber band, style 6)
- 23 all coating (>4 colors) (instruction manual, style 1-6)

Note: mg/kg = milligram per kilogram
“<” = Less than

Method: Plastic - EN 1122: 2001, Method B

Paint - Sample was digested with nitric acid

The cadmium content was analyzed by Atomic Absorption Spectrophotometer or Inductively Coupled Argon Plasma Spectrometer.

* The total cadmium content test result of rubber bands (style4) and c-clip(all styles) refer to the report BV#52141890192



- The total lead content in jewellery requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 63.

TOTAL LEAD CONTENT IN JEWELLERY (European Regulation (EC) No. 1907/2006 REACH, Annex XVII, Item no. 63)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry.

Analyte	Lead
Requirement: Maximum allowable limit:	500 mg/kg

Analyte			Lead (Pb)		Conclusion
Sample Description			Result (mg/kg)		
	Color / Component	Location	Style		
(A)	Light green soft plastic	rubber band	1	LT 10	Pass
	Dull white soft plastic	rubber band	1, 5		
	Dull black soft plastic	rubber band	1, 5		
(B)	Translucent white soft plastic	rubber band	2	LT 10	Pass
	Blue soft plastic	rubber band	2		
	Deep blue soft plastic	rubber band	2		
(C)	Pink soft plastic	rubber band	3	LT 10	Pass
	White/ red soft plastic	rubber band	6		
(D)	Yellow soft plastic	rubber band	5	LT 10	Pass
	Green/ dull blue soft plastic	rubber band	6		
(E)	Purple/ light blue soft plastic	rubber band	6	LT 10	Pass
	Purple/ pink soft plastic	rubber band	6		
(F)	Black/ grey soft plastic	rubber band	6	LT 10	Pass
	Black/ white soft plastic	rubber band	3, 6		
(G)	Sharp orange/ pale blue soft plastic	rubber band	6	LT 10	Pass
	Sharp orange/ dark blue soft plastic	rubber band	6		

LT = Less than

* = Average of duplicate analyses

mg/kg = milligrams per kilogram (ppm = parts per million)

ND = None detected with detection limit 10mg/kg

* The total lead content in jewelry (European Regulation) test result of rubber bands and c-clip refer to the report BV# 52141890192.

Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

1	Clear green plastic (finger loom and clip, style 1)
2	Clear blue plastic (finger loom and clip, style 2)
3	Clear pink plastic (finger loom and clip, style 3)
4	Clear red plastic (finger loom and clip, style 4)
5	Clear yellow plastic (finger loom and clip, style 5)
6	Clear purple plastic (finger loom and clip, style 6)
7	Light green soft plastic (rubber band, style 1)
8	Dull white soft plastic (rubber band, style 1, 5)
9	Dull black soft plastic (rubber band, style 1, 5)
10	Translucent white soft plastic (rubber band, style 2)
11	Blue soft plastic (rubber band, style 2)
12	Deep blue soft plastic (rubber band, style 2)
13	Pink soft plastic (rubber band, style 3)
14	Yellow soft plastic (rubber band, style 5)
15	Purple/ light blue soft plastic (rubber band, style 6)
16	Purple/ pink soft plastic (rubber band, style 6)
17	Black/ grey soft plastic (rubber band, style 6)
18	Black/ white soft plastic (rubber band, style 3, 6)
19	White/ red soft plastic (rubber band, style 6)
20	Sharp orange/ pale blue soft plastic (rubber band, style 6)
21	Sharp orange/ dark blue soft plastic (rubber band, style 6)
22	Green/ dull blue soft plastic (rubber band, style 6)

No.	Substance name	CAS No.	EC No.	Result, %	Detection Limit, %	Basis for identification as a SVHC
				1 - 6		
1	Triethyl arsenate*	15606-95-8	427-700-2	ND	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	ND	0.005	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	ND	0.005	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.005	Toxic for reproduction
5	Cobalt dichloride*	7646-79-9	231-589-4	ND	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 ⁽¹⁾ 10588-01-9 ⁽²⁾	234-190-3	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.005	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	ND	0.005	Toxic for reproduction



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11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	ND	0.005	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	ND	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	ND	0.005	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.005	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	ND	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	ND	0.005	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres ^a	Index no. 650-017-00-8		ND	0.01	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres ^b	Index no. 650-017-00-8		ND	0.01	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	ND	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.01	Carcinogenic; Toxic for reproduction



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28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	ND	0.005	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	ND	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	ND	0.005	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	ND	0.005	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	ND	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	ND	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	ND	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	ND	0.005	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	ND	0.005	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	ND	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	ND	0.01	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.005	Toxic for reproduction



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48	Strontium Chromate*	7789-06-2	232-142-6	ND	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	ND	0.005	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	ND	0.005	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.005	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.005	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	ND	0.005	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	ND	0.01	Carcinogenic
55	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	ND	0.01	Carcinogenic
56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	ND	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.005	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	ND	0.005	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	ND	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.005	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	ND	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	ND	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	ND	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	ND	0.005	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	ND	0.005	Carcinogenic



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68	Phenolphthalein	77-09-8	201-004-7	ND	0.005	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	ND	0.01	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	ND	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	ND	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.005	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.005	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	ND	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	ND	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) §	2451-62-9	219-514-3	ND	0.005	Mutagenic
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) §	59653-74-6	423-400-0	ND	0.005	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	ND	0.005	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.005	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	ND	0.005	Carcinogenic



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82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	ND	0.005	Carcinogenic
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	ND	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	ND	0.005	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.005	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	ND	0.005	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	ND	0.005	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	ND	0.01	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.005	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.01	Equivalent level of concern
91	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	ND	0.01	Equivalent level of concern



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92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	ND	0.005	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	ND	0.005	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0	284-032-2	ND	0.005	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	ND	0.005	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) ⁺	776297-69-9	-	ND	0.005	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.005	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	ND	0.005	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.005	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.01	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	ND	0.005	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	ND	0.005	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	ND	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	ND	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	ND	0.005	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	ND	0.005	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.01	Toxic for reproduction



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110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	ND	0.005	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	ND	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	ND	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	ND	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	ND	0.005	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	ND	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	ND	0.005	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	ND	0.005	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.01	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.005	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	ND	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.01	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	ND	0.01	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.01	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	ND	0.005	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	ND	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	ND	0.005	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.005	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	ND	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.01	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	ND	0.005	Toxic for reproduction



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138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.01	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	ND	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	ND	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	ND	0.005	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	ND	0.005	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [‡]	3825-26-1	223-320-4	ND	0.005	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) [‡]	335-67-1	206-397-9	ND	0.005	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	ND	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	ND	0.005	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	ND	0.005	Carcinogenic
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	ND	0.005	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	ND	0.005	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	ND	0.005	Toxic for reproduction



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152	Cadmium chloride*	10108-64-2	233-296-7	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear ⁺⁺	68515-50-4	271-093-5	ND	0.005	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	ND	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	ND	0.01	Toxic for reproduction



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No.	Substance name	CAS No.	EC No.	Result, %	Detection Limit, %	Basis for identification as a SVHC
				7 - 14		
1	Triethyl arsenate*	15606-95-8	427-700-2	ND	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	ND	0.005	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	ND	0.005	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.005	Toxic for reproduction
5	Cobalt dichloride*	7646-79-9	231-589-4	ND	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 ⁽¹⁾ 10588-01-9 ⁽²⁾	234-190-3	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.005	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	ND	0.005	Toxic for reproduction
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	ND	0.005	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	ND	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	ND	0.005	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.005	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	ND	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB



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19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	ND	0.005	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres ^a	Index no. 650-017-00-8		ND	0.01	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres ^b	Index no. 650-017-00-8		ND	0.01	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	ND	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	ND	0.005	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	ND	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	ND	0.005	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	ND	0.005	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	ND	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	ND	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	ND	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction



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38	Potassium dichromate*	7778-50-9	231-906-6	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	ND	0.005	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	ND	0.005	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	ND	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers:					Carcinogenic
	Chromic acid*	7738-94-5	231-801-5	ND	0.01	
	Dichromic acid*	13530-68-2	236-881-5			
	Oligomers of chromic acid and dichromic acid*	-	-			
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.005	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	ND	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	ND	0.005	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	ND	0.005	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.005	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.005	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	ND	0.005	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	ND	0.01	Carcinogenic
55	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	ND	0.01	Carcinogenic



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56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	ND	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.005	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	ND	0.005	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	ND	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.005	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	ND	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	ND	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	ND	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	ND	0.005	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	ND	0.005	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	ND	0.005	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	ND	0.01	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	ND	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	ND	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.005	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.005	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	ND	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	ND	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) [§]	2451-62-9	219-514-3	ND	0.005	Mutagenic



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78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) [§]	59653-74-6	423-400-0	ND	0.005	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	ND	0.005	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.005	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	ND	0.005	Carcinogenic
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	ND	0.005	Carcinogenic
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	ND	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	ND	0.005	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.005	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	ND	0.005	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	ND	0.005	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	ND	0.01	Toxic for reproduction



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89	1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.005	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.01	Equivalent level of concern
91	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	ND	0.01	Equivalent level of concern
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	ND	0.005	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	ND	0.005	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0	284-032-2	ND	0.005	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	ND	0.005	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) ⁺	776297-69-9	-	ND	0.005	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.005	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	ND	0.005	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.005	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.01	Toxic for reproduction



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101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	ND	0.005	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	ND	0.005	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	ND	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	ND	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	ND	0.005	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	ND	0.005	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	ND	0.005	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	ND	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	ND	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	ND	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	ND	0.005	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	ND	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	ND	0.005	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	ND	0.005	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.01	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.005	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	ND	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.01	Toxic for reproduction



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127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	ND	0.01	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.01	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	ND	0.005	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	ND	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p- cresidine)	120-71-8	204-419-1	ND	0.005	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.005	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	ND	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.01	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	ND	0.005	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.01	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	ND	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	ND	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	ND	0.005	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well- defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]</i>	-	-	ND	0.005	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [‡]	3825-26-1	223-320-4	ND	0.005	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) [‡]	335-67-1	206-397-9	ND	0.005	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	ND	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	ND	0.005	Toxic for reproduction



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147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	ND	0.005	Carcinogenic
148	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	ND	0.005	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	ND	0.005	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	ND	0.005	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear ⁺⁺	68515-50-4	271-093-5	ND	0.005	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	ND	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	ND	0.01	Toxic for reproduction



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No.	Substance name	CAS No.	EC No.	Result, %	Detection Limit, %	Basis for identification as a SVHC
				15 - 22		
1	Triethyl arsenate*	15606-95-8	427-700-2	ND	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	ND	0.005	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	ND	0.005	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	ND	0.005	Toxic for reproduction
5	Cobalt dichloride*	7646-79-9	231-589-4	ND	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	ND	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	ND	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 ⁽¹⁾ , 10588-01-9 ⁽²⁾	234-190-3	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	ND	0.005	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	ND	0.005	Toxic for reproduction
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ , 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	ND	0.005	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	ND	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	ND	0.005	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	ND	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	ND	0.005	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	ND	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	ND	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil,	91995-15-2	295-275-9	ND	0.01	Carcinogenic;



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	anthracene paste, anthracene fraction					Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	ND	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	ND	0.005	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres ^{*a}	Index no. 650-017-00-8		ND	0.01	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres ^{*b}	Index no. 650-017-00-8		ND	0.01	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	ND	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	ND	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	ND	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	ND	0.005	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	ND	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	ND	0.005	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	ND	0.005	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	ND	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	ND	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	ND	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	ND	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	ND	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	ND	0.01	Carcinogenic; Mutagenic;



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						Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	ND	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	ND	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	ND	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	ND	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	ND	0.005	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	ND	0.005	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	ND	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	ND	0.01	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	ND	0.005	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	ND	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	ND	0.005	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	ND	0.005	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	ND	0.005	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	ND	0.005	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	ND	0.005	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	ND	0.01	Carcinogenic
55	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	ND	0.01	Carcinogenic
56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	ND	0.01	Carcinogenic



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57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	ND	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	ND	0.005	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	ND	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	ND	0.005	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	ND	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	ND	0.005	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	ND	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	ND	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	ND	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	ND	0.005	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	ND	0.005	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	ND	0.005	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	ND	0.01	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	ND	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	ND	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	ND	0.005	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	ND	0.005	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	ND	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	ND	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	ND	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) §	2451-62-9	219-514-3	ND	0.005	Mutagenic



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78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) [§]	59653-74-6	423-400-0	ND	0.005	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	ND	0.005	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	ND	0.005	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	ND	0.005	Carcinogenic
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	ND	0.005	Carcinogenic
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	ND	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	ND	0.005	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	ND	0.005	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	ND	0.005	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	ND	0.005	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	ND	0.01	Toxic for reproduction



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89	1,2-Diethoxyethane	629-14-1	211-076-1	ND	0.005	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	ND	0.01	Equivalent level of concern
91	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	ND	0.01	Equivalent level of concern
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	ND	0.005	Equivalent level of concern
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	ND	0.005	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0	284-032-2	ND	0.005	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	ND	0.005	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) ⁺	776297-69-9	-	ND	0.005	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	ND	0.005	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	ND	0.005	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	ND	0.005	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	ND	0.01	Toxic for reproduction



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101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	ND	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	ND	0.005	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	ND	0.005	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	ND	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	ND	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	ND	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	ND	0.005	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	ND	0.005	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	ND	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	ND	0.005	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	ND	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	ND	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	ND	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	ND	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	ND	0.005	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	ND	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	ND	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	ND	0.005	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	ND	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	ND	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	ND	0.005	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	ND	0.01	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	ND	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	ND	0.005	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	ND	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	ND	0.01	Toxic for reproduction



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127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	ND	0.01	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	ND	0.01	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	ND	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	ND	0.005	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	ND	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p- cresidine)	120-71-8	204-419-1	ND	0.005	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	ND	0.005	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	ND	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	ND	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	ND	0.01	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	ND	0.005	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	ND	0.01	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	ND	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	ND	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	ND	0.005	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well- defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]</i>	-	-	ND	0.005	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [‡]	3825-26-1	223-320-4	ND	0.005	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) [‡]	335-67-1	206-397-9	ND	0.005	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	ND	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	ND	0.005	Toxic for reproduction



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147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	ND	0.005	Carcinogenic
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	ND	0.005	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	ND	0.005	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	ND	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	ND	0.005	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	ND	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear ⁺⁺	68515-50-4	271-093-5	ND	0.005	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	ND	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	ND	0.01	Toxic for reproduction

(1) CAS no. 7789-12-0 refers to sodium dichromate dihydrate

(2) CAS no. 10588-01-9 refers to anhydrous sodium dichromate

(3) CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane

(4) CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition

(5) CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous

(6) CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate

(7) CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate

Method: Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV.



Remark:

1. PBT = Persistent, bio accumulative and toxic as defined in Regulation (EC) No 1907/2006
2. vPvB = Very persistent and very bio accumulative as defined in Regulation (EC) No 1907/2006
3. ND = Not Detected
4. *Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
5. **Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
6. [§]TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) and β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
7. ^aRefer to Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
8. ^bRefer to Zirconia Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). c) alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight.
9. [†][1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.
10. [‡]PFOA and APFO are reported together. The result is based on PFOA concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
11. ^{††}[1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.

Note:

1. The limit of 0.1% (w/w) applies to an article. The results were calculated assuming as the submitted sample was an article. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, definition of an article, substance and mixture are:
 - i. Article - An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition
 - ii. Substance - A chemical element and its compound in the natural state or obtained by any manufacturing process
 - iii. Mixture (Previously known as "Preparation") - A mixture or solution composed of two or more substances
2. In accordance of Article 7 of Regulation (EC) No. 1907/2006 (REACH regulation) – Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meets in criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.
3. In accordance of Article 33 of Regulation (EC) No. 1907/2006 (REACH regulation) – Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.

* The Candidate List of Substances of Very High Concern for authorization test result of rubber bands(style4) and c-clip(all styles) refer to the report BV#52141890192.



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NOTE: If there are questions or concerns regarding above report, please contact the appropriate lab persons.

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