

# LEAF

**Luxury Ethical  
and Fair Foundation**

**RESTRICTED SUBSTANCES LIST - 2023**



NAME	CAS	LIMIT (ADULT) mg/kg or specified	LIMIT (CHILDREN) mg/kg or specified	METHOD
<b>Heavy Metals content in Metal Hardware</b>				
Arsenic (As)	7440-38-2	≤ 1000	≤ 1000	Acid digestion ICP-MS/OES
Cadmium (Cd)	7440-43-9	≤ 100	≤ 40	Acid digestion ICP-MS/OES
Lead (Pb)	7439-92-1	≤ 100	≤ 90 ≤ 40 (Children Jewelry)	CPSC-CH-E-1001-08.3
Mercury (Hg)	7439-97-6	≤ 1000	≤ 1000	Acid digestion ICP-MS/OES
Chromium VI (Cr VI)	18540-29-9	≤ 1000	≤ 1000	GB/T 28019
<b>Migration of Heavy Metals from Metal Hardware</b>				
Arsenic (As)	7440-38-2		≤ 25	
Cadmium (Cd)	7440-43-9	≤ 75	≤ 75	UNI EN 71-3
Lead (Pb)	7439-92-1	≤ 90	≤ 900	UNI EN 71-33
Mercury (Hg)	7439-97-6		≤ 60	UNI EN 71-3
Chromium (Cr)	7440-47-3		≤ 60	UNI EN 71-3
Selenium (Se)	7782-49-2		≤ 500	UNI EN 71-3
Barium (Ba)	7440-39-3		≤ 1000	UNI EN 71-3
<b>Nickel release from Articles intended to come into direct and prolonged contact with the skin</b>				
Nickel (Ni)	7440-02-0	≤ 0.5 µg/cm <sup>2</sup> /week	≤ 0.5 µg/cm <sup>2</sup> /week	UNI EN ISO 1811 + EN 12472
<b>Nickel release from all Post assemblies which are inserted into pierced parts of the human body</b>				
Nickel (Ni)	7440-02-0	≤ 0.5 µg/cm <sup>2</sup> /week	≤ 0.5 µg/cm <sup>2</sup> /week	UNI EN ISO 1811
<b>Heavy Metals content in Varnish</b>				
Cadmium (Cd)	7440-43-9	≤ 75	≤ 40	Acid digestion ICP-MS/OES
Lead (Pb)	7439-92-1	≤ 90	≤ 40 (Children Jewelry)	CPSC-CH-E-1001-09.1
<b>Organotin Compounds in Varnish</b>				
MONOBUTYL TIN (MBT)	Multiple	≤ 2	≤ 2	ISO/TS 16179
MONOMETHYL TIN (MMT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
MONOOCTYL TIN (MOT)	Multiple	≤ 1	≤ 1	ISO/TS 16179

MONOPHENYLTIN (MPHT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
DIBUTYLTIN (DBT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
DIMETHYLTIN (DMT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
DIOCTYLTIN (DOT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
DIPHENYLTIN (DPHT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
DIPROPYLTIN (DPT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TRIBUTYLTIN (TBT)	Multiple	≤ 1	≤ 0.5	ISO/TS 16179
TRIBUTYLTIN OXIDE (TBTO)	Multiple	≤ 1	≤ 0.5	ISO/TS 16179
TRICYCLOHEXYLTIN (TCYHT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TRIMETHYLTIN (TMT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TRIOCTYLTIN (TOT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TRIPHENYLTIN (TPHT)	Multiple	≤ 1	≤ 0.5	ISO/TS 16179
TRIPROPYLTIN (TPT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TETRABUTYLTIN (TEBT)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TETRAETHYLTIN (TEET)	Multiple	≤ 1	≤ 1	ISO/TS 16179
TETRAOCTYLTIN (TEOT)	Multiple	≤ 1	≤ 1	ISO/TS 16179

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<b>Phthalates in Varnish</b>				
BENZYL BUTYL PHTHALATE	85-68-7	≤ 50	≤ 50	CPSC-CH-C1001-09.4
DIBUTYL PHTHALATE	84-74-2	≤ 50	≤ 50	CPSC-CH-C1001-09.4
DISOBUTYL PHTHALATE	84-69-5	≤ 50	≤ 50 ≤ 40 (Children Jewelry)	CPSC-CH-C1001-09.4
DI-ISO-DECYL PHTHALATE	26761-40-0 68515-49-1	≤ 1000 (sum)	≤ 1000 (sum)	CPSC-CH-C1001-09.4
DI-ISO-NONYL PHTHALATE	28553-12-0 68515-48-0	≤ 1000 (sum)	≤ 1000 (sum)	CPSC-CH-C1001-09.4
DI-N-OCTYL PHTHALATE	117-84-0	≤ 1000 (sum)	≤ 1000 (sum)	CPSC-CH-C1001-09.4
DI-PENTYL PHTHALATE (n-iso- or mixed)	131-18-0 605-50-5	≤ 50	≤ 50	CPSC-CH-C1001-09.4

	776297-69-9			
	84777-06-0			
<i>DI-(2-ETHYLHEXYL)PHTALATE</i>	117-81-7	≤ 50	≤ 50	CPSC-CH-C1001-09.4
<i>DI-(2-METHOXYETHYL)PHTALATE</i>	117-82-8	≤ 50	≤ 50	CPSC-CH-C1001-09.4
<i>DI-N-HEXYLPHTALATE</i>	84-75-3	≤ 1000	≤ 500	CPSC-CH-C1001-09.4
<i>1,2 -BENZENDICARBOXYLIC ACID, DI C6-8 BRANCHED ALKYL ESTHERS, C7 RICH</i>	71888-89-6	≤ 50	≤ 50	CPSC-CH-C1001-09.4
<i>1,2 -BENZENDICARBOXYLIC ACID, DI C7-11 BRANCHED AND LINEAR ALKYL ESTHERS, C7 RICH</i>	68515-42-4	≤ 50	≤ 50	CPSC-CH-C1001-09.4

### **Polycyclic Aromatic Hydrocarbons (PAHs)**

<i>ACENAPHTENE</i>	83-32-9	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>ACENAPHTYLENE</i>	208-96-8	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>ANTHRACENE</i>	120-12-7	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(A)ANTHRACENE</i>	56-55-3	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(A)PYRENE</i>	50-32-8	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(B)FLUOROANTHENE</i>	205-99-2	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(E)PYRENE</i>	192-97-2	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(GHI)PERYLENE</i>	191-24-2	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(K)FLUORANTHENE</i>	207-08-9	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>BENZO(J)FLUORANTHENE</i>	205-82-3	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>CHRYSENE</i>	218-01-9	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>DIBENZO(A,H)ANTHRACENE</i>	53-70-3	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>FLUORANTHENE</i>	206-44-0	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>FLUORENE</i>	86-73-7	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>INDENO(1,2,3-CD)PYRENE</i>	193-39-5	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>NAPHTALENE</i>	91-20-3	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK

<i>PHENATHRENE</i>	85-01-8	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK
<i>PYRENE</i>	129-00-0	≤ 1	≤ 0.5	AfPS GS 2019:01 PAK