

# **Chemical Restrictions**

Revision date  
2023-05-01

**POLARN O. PYRET**

## Table of Content

INTRODUCTION .....	3
1. APPAREL, ACCESSORIES, FOOTWEAR & PACKAGING .....	3
1.1. CHEMICAL RESTRICTIONS – PRODUCTION .....	3
1.2. CHEMICAL RESTRICTIONS – PRODUCTS .....	3
1.3. PO.P ADDITIONAL CHEMICAL REQUIREMENTS .....	4
2. TOYS.....	8

## Introduction

Polarn O. Pyret's (PO.P) Chemical Restrictions are based on company policies, legislations, and common trade agreements and is updated annually.

The list contains regulated chemicals along with their Chemical Abstracts Service number (CAS). The chemicals in the list are completely banned or regulated within quantities that does not cause harm for the user. All suppliers to PO.P are required to sign an agreement to follow PO.Ps Chemical Restrictions.

Based on risk assessment PO.P carry out testing of chemicals at accredited third-party laboratories. The samples for testing are picked straight from production or directly from the store.

### PO.P Chemical Restrictions is divided into two parts:

Part 1: Apparel, Accessories, Footwear, & Packaging Products

Part 2: Toys

## 1. Apparel, Accessories, Footwear & Packaging

### 1.1. Chemical Restrictions – Production

For all Textile and Leather manufacturing, the complete supply chain shall comply with the latest version of the *ZDHC Manufacturing Restricted Substance List*, found at [ZDHC MRSL \(roadmaptozero.com\)](https://www.zdhc.org/roadmap-to-zero)

### 1.2. Chemical Restrictions – Products

For all products within the scope of Apparel, Accessories, Footwear and Packaging shall comply with the latest version of *AFIRM's Restricted Substances List*, found at [www.afirm-group.com/afirm-rsl](https://www.afirm-group.com/afirm-rsl)

Where different requirements apply to different age groups in the AFRIM RSL, PO.P always follows requirements for **Babies**, no matter what age group the actual garment is intended for.

### 1.3. PO.P Additional Chemical Requirements

In addition to ZDHC MRSL and AFRIM RSL, PO.P has stricter requirements for some chemical substances as stated in the following chapter.

Biocides	
CAS	Substance
Various	All Biocidal compounds
Bisphenols	
CAS	Substance
80-05-7	Bisphenol-A (BPA)
77-40-7	Bisphenol B (BPB)
80-09-1	Bisphenol S (BPS)
620-92-8	Bisphenol F (BPF)
1478-61-1	Bisphenol AF (BPAF)
6807-17-6	2,2-bis(4'-hydroxyphenyl)-4-methylpentane
Chlorinated Paraffins	
CAS	Substance
85535-84-8	Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)
85535-85-9	Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)
Chlorophenols	
CAS	Substance
15950-66-0	2,3,4-Trichlorophenol (TriCP)
933-78-8	2,3,5-Trichlorophenol (TriCP)
933-75-5	2,3,6-Trichlorophenol (TriCP)
95-95-4	2,4,5-Trichlorophenol (TriCP)
88-06-2	2,4,6-Trichlorophenol (TriCP)
609-19-8	3,4,5-Trichlorophenol (TriCP)
4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)
58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)
935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)
87-86-5	Pentachlorophenol (PCP) and its salts and esters
Various	(MCP)
Various	(DCP)
Cyclic siloxanes	
CAS	Substance
556-67-2	D4
541-02-6, 540-97-6	D5, D6
Flame retardants	
CAS	Substance
Various	All flame retardants
Various	Flame retardants listed in AFIRM RSL

78-30-8	Tri-o-cresyl phosphate
115-86-6	Triphenyl phosphate (TPhP)
13674-84-5	Tris(1-chloro-2-propyl)phosphate (TCPP)
13560-89-9	Dechlorane™
<b>Heavy Metals (Extractable)</b>	
<b>CAS</b>	<b>Substance</b>
7440-36-0	Antimony (Sb)
18540-29-9	Chromium VI
7782-49-2	Selenium
7440-31-5	Tin
7439-96-5	Manganese
7440-66-6	Zink
<b>Organotin Compounds</b>	
<b>CAS</b>	<b>Substance</b>
Various	Dibutyltin (DBT)
Various	Diocetyl tin (DOT)
Various	Monobutyltin (MBT)
Various	Tricyclohexyltin (TCyHT)
Various	Trimethyltin (TMT)
Various	Triocetyl tin (TOT)
Various	Tripropyltin (TPT)
Various	Tributyltin (TBT)
Various	Triphenyltin (TPhT)
<b>Ortho-phenylphenol</b>	
<b>CAS</b>	<b>Substance</b>
90-43-7	Ortho-phenylphenol (OPP)
<b>Per- and polyfluorinated compounds (PFC/PFAS)</b>	
<b>CAS</b>	<b>Substance</b>
Various	Per and polyfluorinated compounds in AFIRM RSL
29420-49-3	Perfluorobutane Sulfonate (PFBS)
375-92-8	Perfluoroheptane Sulfonate (PFHpS)
335-77-3, 2806-15-7, 2806-16-8	Perfluorodecane Sulfonate (PFDS)
375-22-4	Perfluorobutane Acid (PFBA)
2706-90-3	Perfluoropentane Acid (PFPA)
375-85-9	Perfluoroheptane Acid (PFHpA)
2058-94-8	Perfluoroundecanoic Acid (PFUnA)
1546-95-8	7H-Dodecanefluoroheptane Acid (HPFHpA)
17527-29-6	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)
17741-60-5	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)
2043-47-2	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)
647-42-7	1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)
865-86-1	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)

2448-09-7	2-(N-methylperfluoro-FASE 1 octanesulfonamido)-ethanol (MeFOSE)
-	(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) silanetriol
<b>Pesticides</b>	
CAS	Substance
Various	Pesticides
<b>Phthalates</b>	
CAS	Substance
28553-12-0	Di-Iso-nonylphthalate (DINP)
117-84-0	Di-n-octylphthalate (DNOP)
117-81-7	Di(2-ethylhexyl)-phthalate (DEHP)
26761-40-0	Diisodecylphthalate (DIDP)
85-68-7	Butylbenzylphthalate (BBP)
84-74-2	Dibutylphthalate (DBP)
84-69-5	Diisobutylphthalate (DIBP)
84-75-3	Di-n-hexylphthalate (DnHP)
84-66-2	Diethylphthalate (DEP)
131-11-3	Dimethylphthalate (DMP)
131-18-0	Di-n-pentyl phthalate (DPENP)
84-61-7	Dicyclohexyl phthalate (DCHP)
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich
117-82-8	Bis(2-methoxyethyl) phthalate
605-50-5	Diisopentyl phthalate (DIPP)
131-16-8	Dipropyl phthalate (DPRP)
27554-26-3	Diisooctyl phthalate (DIOP)
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear
71850-09-4	Diisohexyl phthalate (DIHxP)
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUF)
84777-06-0	1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear
68648-93-1	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with 0.3% of dihexyl phthalate; 1,2-
68515-51-5	Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters
776297-69-9	n-Pentyl-isopentylphthalate (nPIPP)
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>	
CAS	Substance
83-32-9	Acenaphthene
208-96-8	Acenaphthylene
120-12-7	Anthracene
191-24-2	Benzo(g,h,i)perylene
86-73-7	Fluorene
206-44-0	Fluoranthene
193-39-5	Indeno(1,2,3-cd)pyrene
91-20-3	Naphthalene
85-01-8	Phenanthrene
129-00-0	Pyrene
<b>Solvents</b>	
CAS	Substance
68-12-2	N,N-dimethylformamide (DMFa)

127-19-5	N,N-dimethylacetamide (DMAC)
872-50-4	N-methyl-2-pyrrolidone (NMP)
<b>Other</b>	
<b>CAS</b>	<b>Substance</b>
Various	REACH SVHC Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57
Various	AOX
62-53-3	Aniline
Various	Dyes (forbidden and disperse) listed in AFRIM
Various	Nanomaterials
Various	Polyvinylchloride (PVC) and other similar chlorinated polymers

## 2. Toys

Applies to all details of toys produced for Polarn O. Pyret.

Requirement	Limit/Requirement
Chemical Restrictions Part 1: Apparel, Accessories, Footwear & Packaging	All toys must comply with Chemical Restrictions Part 1: Apparel, Accessories, Footwear & Packaging
EU Toy Safety Directive 2009/48/EC	All Toys must comply with EU Toy Safety Directive 2009/48/EC including its amendments.
European Standards for Safety of Toys EN 71	All Toys must comply with and be tested for valid edition of EN 71-3 as well as EN 71-5, EN 71-9, EN 71-10, EN 71-11 and EN 71-12 if relevant for the type of toy.
ASTM F963	All Toys must comply with and be tested for valid edition of US Standard ASTM F963.
USA CPSIA	All toys for the US market must be tested for lead and phthalates according to the CPSIA. A certificate should be made based on the third-party test results.

Polycyclic Aromatic Hydrocarbons (PAHs)	
CAS	Substance
56-55-3	Benzo[a]anthracene
50-32-8	Benzo[a]pyrene
205-99-2	Benzo[b]fluoranthene
192-97-2	Benzo[e]pyrene
191-24-2	Benzo(g,h,i)perylene
205-82-3	Benzo[j]fluoranthene
207-08-9	Benzo[k]fluoranthene
218-01-9	Chrysene
53-70-3	Dibenzo[a,h]anthracene
193-39-5	Indeno(1,2,3-c,d)pyrene
83-32-9	Acenaphthene
208-96-8	Acenaphthylene
120-12-7	Anthracene
206-44-0	Fluoranthene
86-73-7	Fluorene
85-01-8	Phenanthrene
129-00-0	Pyrene
91-20-3	Naphthalene
75-12-7	Formamide