

The logo for ALTA is rendered in a bold, blue, sans-serif font. The letters 'A' and 'T' are stylized with sharp, triangular points at their top corners. The background of the entire page is a monochromatic orange with a textured, splattered appearance. Two silhouettes of cyclists are visible: a smaller one on the left and a larger one on the right, both riding towards the left.

ALTA

CYCLING GROUP

RESTRICTED SUBSTANCES LIST

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INTRODUCTION

To improve the protection of human health and the environment from the risks that can be posed by chemicals, regulations and legislation have been drawn up by several countries around the world. This RSL aims to bring a clear overview of the legislation and regulation that are applicable and what that implicates for the presence of Substance of Very High Concern (SVHC) in the articles we purchase at our suppliers.

SCOPE

In general, substances with a category 1 or 2 CMR (Carcinogenic, Mutagenic and/or Toxic to Reproduction) classification as set out by the European Union and Persistent, Bio-accumulative and toxic substances (PBTs) and/or very Persistent and very Bio-accumulative substances (vPvBs) must not intentionally be present in articles and products manufactured for Alta Cycling Group (ACG). This Alta Cycling Group Restricted Substance List (RSL) is set up to prevent the validation of any article which might contain SVHC in a concentration beyond the thresholds. These specifications on SVHC are applicable for all the materials, components, finished products as well as their packaging supplied to the ACG and must be followed by all the suppliers

PROCESS

Suppliers shall comply with the attached RSL. Suppliers are responsible to stay up to date on and comply with newly released and emerging regulations from global regulators such as: U.S Consumer Product Safety Commissions (CPSC)

<http://www.cpsc.gov/>

European Commission General Product Safety Directive (GPSD)

http://ec.europa.eu/consumers/consumers_safety/product_safety_legislation/general_product_safety_directive/index_en.htm

It is the responsibility of suppliers to ensure that all minimum chemical regulations are followed for products manufactured for ACG.

DEFINITIONS

Limit value: Maximum allowed value of hazardous substances in preparations, mixtures, components and semi-finished or finished goods.

Prolonged contact: In general, all components that are likely to come in contact with the skin for longer than 30 minutes per week under normal conditions of use must be considered to be in direct and prolonged contact with the skin.

For products aimed at children aged 36 month or less (baby products), all accessible components are likely to come into direct and prolonged contact with the skin or put into the baby's mouth.

Short contact: All components that are likely to come in contact with the skin and prolonged contact category does not cover.

Leather: Only natural leather, not coated. Plastic: Includes all types of plastic components (PP, PE, PVC, PC, PU, TPU, TPE, etc.)

Metal: Includes all metallic components, painted or not, treated or not.

Toys: are mainly defined, designed, exclusively or not to play for children under 14 years old.

cas#: A unique numerical identifier assigned by the Chemical Abstracts Service (CAS) to every chemical substance described in the open scientific literature, including organic and inorganic compounds, minerals, isotopes, alloys and non-structural materials.

Method Detection Limit (MDL): The minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from the method blank results.

Validation testing: The supplier must hand over to the Factory Procurement department a test report prepared by an accredited test institute for this article prior to the first delivery. The costs of this testing are for the supplier.

Verification testing: Every article that will be purchased and used on a bike or sold to the retail or consumer must be tested after a certain period of use to check if it still fulfilling the demands. Verification testing is an independent testing by Alta. It can confirm that the article complies or not complies with the Alta Group's Restricted Substances List.

The frequency of the verification testing is variable. There are different categories depending on the finished goods to be used for. These categories have different risk levels according to the age of their target audience and the possibility to create direct contact between the human skin and the product. The aim is to check these articles annually and those which has higher chance to contain substances of very high concern every 6 month.

Categories	Risk Level	Test Required
Young children < 36 months	1	Once per 6 months
Children > 36 months	1	Once per 6 months
Toys	1	Once per 6 months
Prolonged skin contact	2	Once a year
Short skin contact	3	Once per one and a half year
Dyes and pigment	3	Once per one and a half year

LIST OF SUBSTANCES

Alta ID#	CAS#	Name	Textile	Coating	Leather	Plastic	Rubber	Metal	Wood	Composite	Electronics	Lubricant
1	Metals, Elements, Ionic Impurities											
1.1	1309-64-4	Antimony	X	X	X	X	X	X	X	X	X	X
1.2	7440-38-2	Arsenic	X	X	X	X	X	X	X	X	X	X
1.3	Barium		X	X	X	X	X	X	X	X	X	X
1.4	10043-35-3 11113-50-1 1303-96-4 1330-43-4 12179-04-3 12267-73-1	Boron	X	X	X	X	X	X	X	X	X	X
1.5	Bromine and compounds											
1.6	7440-43-9	Cadmium	X	X	X	X	X	X	X	X	X	X
1.7	Chromium											
1.8	18540-29-9	Chromium (VI)	X	X	X	X	X	X	X	X	X	X
1.9	7440-48-4	Cobalt	X	X	X	X	X	X	X	X	X	X
1.10	7440-50-8	Copper (textile dyes)	X	X	X	X	X	X	X	X	X	X
1.11	8053-60-9 7439-89-6	Iron (textile dyes)	X									
1.12	7439-92-1	Lead	X	X	X	X	X	X	X	X	X	X
1.13	7439-96-5	Magnesium (textile dyes)	X									
1.14	7439-97-6	Mercury	X	X	X	X	X	X	X	X	X	X
1.15	7440-02-0	Nickel (free)						X				
1.16	7782-49-2	Selenium	X	X								
1.17	7440-22-4	Silver (textile dyes)	X									
1.18	Tin (organic)		X	X	X	X	X	X	X	X	X	X
1.19	7440-66-6	Zinc (textile dyes)	X									
2	Polycyclic Aromatic Hydrocarbons											
2.1	91-20-3	Naphthalene		X	X	X	X					
2.2	208-96-8	Acenaphthylene		X	X	X	X					
2.3	83-32-9	Acenaphthene		X	X	X	X					
2.4	86-73-7	Fluorene		X	X	X	X					
2.5	85-01-8	Phenanthrene		X	X	X	X					
2.6	120-12-7	Anthracene		X	X	X	X					
2.7	206-44-0	Fluranthrene		X	X	X	X					
2.8	129-00-0	Pyrene		X	X	X	X					
2.9	218-01-9	Chrysene		X	X	X	X					
2.10	56-53-3	Benzo(a)anthrance (BaA)		X	X	X	X					
2.11	205-99-2	Benzo(b)fluoranthrene (BbFA)		X	X	X	X					

2.12	207-08-9	Benzo(k)fluoranthrene (BkFA)		X	X	X	X					
2.13	50-32-8	Benzo(a)pyrene (BaP)		X	X	X	X					
2.14	193-39-5	Indenol(1,2,3-cd)pyrene		X	X	X	X					
2.15	53-70-3	Dibenzo(a,h)anthracene (DBahA)		X	X	X	X					
2.16	191-4-2	Benzo(g,h,i)perylene		X	X	X	X					
2.17	192-97-2	Benzo(e)pyrene (BeP)		X	X	X	X					
2.18	205-82-3	Benzo(j)fluoranthrene (BjFA)		X	X	X	X					
3	Phthalates											
3.1	117-81-7	Di(2-Ethylhexyl) phthalate DEHP		X	X	X	X		X	X		
3.2	84-74-2	Dibutyl phthalate DBP		X	X	X	X		X	X		
3.3	85-68-7	Benzylbutyl phthalate BBP		X	X	X	X		X	X		
3.4	84-69-5	Diisobutyl phthalate DIBP		X	X	X	X		X	X		
3.5	28553-12-0	Diisonooyl phthalate DINP		X	X	X	X		X	X		
3.6	26761-40-0	Diisodecyl phthalate DIDP		X	X	X	X		X	X		
3.7	117-84-0	Di-n-octyl phthalate DNOP		X	X	X	X		X	X		
3.8	84-75-3	Dihexyl phthalate DHP		X	X	X	X		X	X		
3.9	117-82-8	Bis(2-methoxyethyl) phthalate DMEP		X	X	X	X		X	X		
3.10	161-18-0	Dipentyl phthalate DPP		X	X	X	X		X	X		
3.11	131-11-3	Dimethyl phthalate DMP		X	X	X	X		X	X		
3.12	84-66-2	Diethyl phthalate DEP		X	X	X	X		X	X		
4	Flame Retardants											
4.1	85535-84-8	Short Chains Chlorinated Paraffins (Chloroalcans C10to C 13)		X	X	X	X		X		X	
4.2	Brominated compounds (TRIS, ODDE)		X		X				X			
4.3	Brominated compounds (HBCDD, PBB, PBDE)					X		X	X		X	
4.4	Chlorinated organophosphorus (TCEP, TCPP, TDCP)		X	X		X	X	X	X		x	
4.5	1336-36-3	Plychlorobiphenyls and triphenyls Pyralene				X		X	X		X	
5	Monomers											
5.1	80-05-7	Bisphenol A (BPA)				X	X			X		
5.2	108-95-2	Free Phenol				X	X			X		X
6	Solvents											
6.1	872-50-4	N-methyl pyrrolidone		X		X	X			X		X

6.2	79-01-6 127-18-4	Tetrachloroethylene Trichloroethylene	X	X								X
7	Alkylphenols and their Ethoxylates											
7.1	Nonylphenols and their Ethoxylates Octylphenols and their Ethoxylates		X	X	X				X			X
8	Biocides											
8.1	624-49-7	Dimethylfumate	X		X				X	X		
8.2	Polychlorophenols		X		X				X			
8.3	Other pesticides		X		X				X			
9	Dyes											
9.1	Aromatic Amines		X		X							
9.2	Carcinogenic Dyes		X		X							
9.3	Allergic Dyes		X		X							
9.4	118685-33-9	Blue Colorant	X		X							
10	Chemicals can be found in foams											
10.1	123-17-3	Diazene-1,2- dicarboxamide (C,C'azodi(formamide))				X	X					
10.2	75-12-7	Formamide				X	X					
10.3	Ozone Depleter Gases					X	X					
11	Nitrosamines											
11.1	Nitrosamines - content					X	X					
12	Others											
12.1	50-00-0	Formaldehyde	X	X	X	X	X	X	X	X		X
13	Perfluoro Carbons											
13.1	1763-23-1	PFOS and its salts	X	X	X							
13.2	335-67-1	PFOA and its salts	X	X	X							

Limits

Chart						
Metal, element, ionic impurities limits in different articles (ppm: part per million)						
Alta ID#	CAS #	Name	Prolonged or short-term repetitive contact with skin or oral cavity	Short Skin Contact	Textile / Paint	Children articles / Toys

			Textile, coating, leather, plastic, rubber, wood	metal	Textile, coating, leather, plastic, rubber, wood	metal	Dyes	Pigments	i. b. Chart
1.1	7440-36-0 and compounds (1309-64-4)	Antimony (Sb)	< 500 ppm				< 50 ppm	< 250 ppm	
1.2	7440-38-2	Arsenic (As)	< MDL		< 100 ppm: no release		< MDL (articles for underwater; wood)		
1.3	7440-39-3	Barium (Ba)	< 1000ppm				< 100 ppm		
1.4	10043-35-3, 11113-50-1, 1303-96-4, 1330-43-4, 12179-04-3, 12267-73-1	Boron (Boric acid, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide)	< 500 ppm						
1.5	7726-95-6	Bromine (Br)	< 1000 ppm						
1.6	7440-43-9	Cadmium (Cd)	< 75 ppm (leather < 10 ppm)		< 75 ppm		< 20 ppm (paints with codes 3208, 3209) < 1000 ppm	< 50 ppm (paints with codes 3208, 3209) < 1000 ppm	
1.7		Chromium (Cr) (clothing)	< 100 ppm		< 1000 ppm		< 100 ppm		
1.8	18540-29-9	Chromium(VI)	Cr ⁶⁺ < 3 ppm						
1.9	7646-79-9, 513-79-1, 71-48-7, 10141-05-6, 10124-43-3	Cobalt (Cobalt dichloride, Cobalt carbonate, Cobalt diacetate, Cobalt dinitrate, Cobalt sulphate)	< 100 ppm	< 300 ppm	< 1000 ppm		< 500 ppm		
1.10	7440-50-8	Copper (Cu)					< 250 ppm		
1.11	7439-89-6, 8053-60-9	Iron (Fe)					< 2500 ppm	< 500 ppm	
1.12	7439-92-1	Lead (Pb)	< 100ppm				< MDL (Lead-carbonates; Lead-sulphates)		
1.13	7939-96-5	Manganese (Mn)	< 1500 ppm				< 1000 ppm		
1.14	7469-97-6	Mercury (Hg)	< MDL						
1.15	7440-02-0	Nickel (Ni) (leachable)	< 0.5 µg / cm ² / week				< 200 ppm		
1.16	7782-49-2	Selenium (Se)	< 500 ppm				< 20 ppm	< 100 ppm	
1.17	7440-22-4	Silver (Ag)					< 100 ppm		
1.18	7440-31-5	Tin (Sn) (organic)	< 1000 ppm				< 250 ppm		
1.19	7440-66-6	Zinc (Zn)					< 1000 ppm		

Limits

Chart						
Metal, element, ionic impurities limits (children articles) ¹² (ppm: part per million)						
Alta ID#	CAS #	Name	Limits (ppm)			
			Products aimed at users less than 3 years old (including clothing, textiles) ^{13,14}	Products aimed at users above than 3 years old (including clothing, textiles) ^{13,14}	Metal Parts	Toys (prolonged, short-term repetitive contact)
1.1	7440-36-0, 1309-64-4	Antimony (Sb) (Antimony Compounds)	< 30 ppm	< 60 ppm		

1.2	7440-38-2	Arsenic (As)	< MDL	< 25 ppm	< 100 ppm: no release	< 10 ppm
1.3	7440-39-3	Barium (Ba)	< 100 ppm			
1.4	10043-35-3, 11113-50-1, 1303-96-4, 1330-43-4, 12179-04-3, 12267-73-1	Boron (Boric acid, Disodium tetraborate anhydrous, Tetraboron disodium heptaoxide)	< 100 ppm	< 500 ppm		
1.5	7726-95-6	Bromine (Br)	< 1000 ppm			< 100 ppm
1.6	7440-43-9	Cadmium (Cd)	< MDL	< 10 ppm	< 75 ppm	< 10 ppm
1.7		Chromium (Cr) (clothing)	< 1 ppm	< 100 ppm	< 60 ppm	< 30 ppm
1.8	18540-29-9	Chromium(VI)	Cr ⁶⁺ < MDL ppm			
1.9	7646-79-9, 513-79-1, 71-48-7, 10141-05-6, 10124-43-3	Cobalt (Cobalt dichloride, Cobalt carbonate, Cobalt diacetate, Cobalt dinitrate, Cobalt sulphate)	< MDL ppm	< 100 ppm		
1.10	7440-50-8	Copper (Cu)	< 25 ppm			
1.12	7439-92-1	Lead (Pb)	< MDL	< 10 ppm	< 90 ppm	
1.13	7939-96-5	Manganese (Mn)	< 1000 ppm			
1.14	7469-97-6	Mercury (Hg)	< MDL			
1.15	7440-02-0	Nickel (Ni) (migration, leachable)	< 0.5 µg / cm ² / week			
1.16	7782-49-2	Selenium (Se)	< 500 ppm			
1.17	7440-22-4	Silver (Ag)			No release	
1.18	7440-31-5	Tin (Sn) (organic)	< MDL			
1.19	7440-66-6	Zinc (Zn)	< 1000 ppm		No Release	

Chart						
PAH's, PHTH's ¹⁵ (ppm: part per million)						
Alta ID#	CAS #	Substance	Limits (ppm)			
			Children articles, Toys	Articles, components with prolonged or short-term repetitive contact with skin	Food Pack (bottle, water sack, etc.)	Articles, components that come into short skin contact
2	Polycyclic Aromatic Hydrocarbons (PAH)					
2.1	91-20-3	Naphtalene	< 2 ppm	< 2 ppm	< 1 ppm	< 10 ppm
2.2	208-96-8	Acenaphthylene	Sum < 5 ppm	Sum < 10 ppm		Sum < 50 ppm
2.3	83-32-9	Acenaphthene				
2.4	86-73-7	Fluorene				
2.5	85-01-8	Phenanthrene				
2.6	120-12-7	Anthracene				
2.7	206-44-0	Fluoranthrene				

2.8	129-00-0	Pyrene								
2.9	218-01-9	Chrysene								
2.10	56-55-3	Benzo(a)anthracene (BaA)								
2.11	205-99-2	Benzo(b)fluoranthrene (BbFA)								
2.12	207-08-9	Benzo(k)fluoranthrene (BkFA)								
2.13	50-32-8	Benzo(a)pyrene (BaP)	< 0.2 ppm	< 0.5 ppm		< 1 ppm				
2.14	193-39-5	Indeno(1,2,3-cd)pyrene								
2.15	53-70-3	Dibenzo(a,h)anthracene (DBahA)								
2.16	191-24-2	Benzo(g,h,i)perylene								
2.17	192-97-2	Benzo(e)pyrene (BeP)								
2.18	205-82-3	Benzo(j)fluoranthrene								
Total of 18 PAHs							< 5 ppm	< 10 ppm	< 10 ppm	< 50 ppm
3	Phthalates									
3.1	117-81-7	Di(2-Ethylhexy) phthalate DEHP	Sum < 500 ppm	< 1000 ppm						
3.2	84-74-2	Dibutyl phthalate DBP								
3.3	85-68-7	Benzylbutyl phthalate BBP								
3.4	84-69-5	Diisobutyl phthalate DIBP								
3.5	28553-12-0	Diisononyl phthalate DINP								
3.6	26761-40-0	Diisodecyl phthalate DIDP								
3.7	117-84-0	Di-n-octyl phthalate DNOP								
3.8	84-75-3	Dihexyl phthalate DHP								
3.9	117-82-8	Bis(2-methoxyethyl) phthalate DMEP								
3.10	131-18-0	Dipentyl phthalate DPP								
3.11	131-11-3	Dimethyl phthalate DMP								
3.12	84-66-2	Diethyl phthalate DEP								
Chart										
Different organics and other substances (ppm: part per million)										
Alta ID#	CAS #	Substance	Limits (ppm)							
			Children articles, Toys	Articles, components with prolonged or short-term repetitive contact with skin	Food Pack (bottle, water sack, etc.)	Articles, components that come into short skin contact				
4	Flame Retardants									
4.1	85535-84-8	Short Chains Chlorinated Paraffins (Chloroalcans C10 to C13)	1000 ppm							
4.2		Brominated compounds TRIS, ODBE	5 ppm							
4.3		Brominated compounds HBCDD, PBB, PBDE								
4.4		Chlorinated organophosphorus:	5 ppm							

		TCEP, TCPP, TDCP				
4.5	1336-36-3	Polychlorobiphenyls and triphenyls Pyralene	50 ppm		100 ppm (electronics)	
5	Monomers					
5.1	80-05-7	Bisphenol A (BPA)	< MDL			
5.2	108-95-2	Free Phenol	500 ppm			
6	Solvents					
6.1	872-50-4	N-methyl pyrrolidone	< 1000 ppm			
6.2	79-01-6 127-18-4	Trichloroethylene Tetrachloroethylene	Sum < 100 ppm			
7	Alkylphenols and their ethoxylates					
7.1		Nonylphenols and their Ethoxylates Octylphenols and their Ethoxylates	100 ppm			
8	Biocides					
8.1	624-49-7	Dimethylfumate	0.1 ppm			
8.2		Polychlorophenols	0.005 ppm			
8.3		Other pesticides	30 ppm			
9	Dyes					
9.1		Aromatic amines	20 ppm			
9.2		Carcinogenic Dyes				
9.3		Allergic Dyes				
9.4	118685-33-9	Blue Colorant				
10	Chemicals can be found in foams					
10.1	123-17-3	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	1000 ppm			
10.2	75-12-7	Formamide	200 ppm	1000 ppm		
10.3		Ozone Depleter Gases	1 ppm			
Chart						
Different organics and other substances (ppm: part per million)						
Alta ID#	CAS #	Substance	Limits (ppm)			
			Children articles, Toys	Articles, components with prolonged or short-term repetitive contact with skin	Food Pack (bottle, water sack, etc.)	Articles, components that come into short skin contact
11	Nitrosamines					
11.1		Nitrosamines - content	0.05 ppm	5 ppm	0.05 ppm	50 ppm
12	Other					
12.1	50-00-0	Formaldehyde	15 ppm	75 ppm		300 ppm
13	Perfluoro carbons					
13.1	1763-23-1	PFOS and its salts	< MDL			
13.2	335-67-1	PFOA and its salts				

Chart				
Packaging and Electronic components				
Alta ID#	CAS #	Substance	Packaging	Electronic Components
1.6	7440-43-9	Cadmium	Sum < 100 ppm	< 1000 ppm
1.8	18540-29-9	Chromium (VI)		
1.11	7439-92-1	Lead		
1.13	7439-97-6	Mercury		
4.4	59536-65-1 and others	PBB		
4.6	32534-81-9 and other	PBDE		

Chart			
Batteries			
Alta ID#	CAS #	Substance	Battery
1.6	7440-43-90	Lead	40 ppm
1.11	7439-92-1	Cadmium	20 ppm
1.13	7439-97-6	Mercury	5 ppm