

## Certificate Of Analysis



**Report number: S34938470-088688-1**

**Print date: 2023-06-12**

Applicant: Koopman International  
Country: The Netherlands  
Article description: CAR SET 24PCS DIECAST 75MM 8AS  
Item number: S34938470  
Order number: 088688  
Date of article received: maart 20, 2023  
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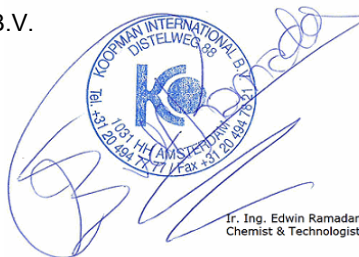
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**Conclusion : Passed**

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The test results only apply to the tested specimens

Signed for and on behalf of Koopman International B.V.

  
Ir. Ing. Edwin Ramadan  
Chemist & Technologist

Koopman International BV has a verified Bureau Veritas procedure of Laboratory Testing and a Bureau Veritas verification of REACH compliance. The test itself and the associated report is reviewed by Koopman International BV.



**Summary of tested parts.**

**Part(s) description:**

- black chassis
- white wheel
- black tire
- dark blue coating
- white coating
- purple coating
- light blue coating
- red coating
- green coating
- yellow coating
- black coating
- black gearbox
- green gears
- orange coating

(The test results for the above part(s) are listed on the following pages.)

**Picture of the tested samples**





## Tested parts

Part description: **black chassis**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **Flame retardants (PBDE and PBB)**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

**Testing conditions:** 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

**According to:** Reach 1907/2006 Annex XVII, entry 61 on DMF

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Hexachlorobenzene	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0





## Tested parts

Part description: **black chassis**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endrin	Not Detected	Result < MAX 1.0
Dieldrin	Not Detected	Result < MAX 1.0
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	0 ppm	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0



## Tested parts

Part description: **black chassis**

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	8.0 ppm	Result <= MAX 1000000

## Tested parts

Part description: **black chassis**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	30 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Formaldehyde oligomer reaction products	0 ppm	
Bisphenol A	Not Detected	Result <= MAX 3000
MCCP	Not detected	

Part description: **white wheel**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT





## Tested parts

Part description: **white wheel**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **Flame retardants (PBDE and PBB)**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

**Testing conditions:** 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

**According to:** Reach 1907/2006 Annex XVII, entry 61 on DMF

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Hexachlorobenzene	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0





## Tested parts

Part description: **white wheel**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endrin	Not Detected	Result < MAX 1.0
Dieldrin	Not Detected	Result < MAX 1.0
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0





## Tested parts

Part description: **white wheel**

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000

## Tested parts

Part description: **white wheel**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Formaldehyde oligomer reaction products	0 ppm	
Bisphenol A	Not Detected	Result <= MAX 3000
MCCP	Not detected	

Part description: **black tire**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT



## Tested parts

Part description: **black tire**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **Flame retardants (PBDE and PBB)**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

**Testing conditions:** 111/54/CDV & IEC 62321

Component	Result	Specification
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **OCP & DMF**

**According to:** Reach 1907/2006 Annex XVII, entry 61 on DMF

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Hexachlorobenzene	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0



## Tested parts

Part description: **black tire**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Endrin	Not Detected	Result < MAX 1.0
Dieldrin	Not Detected	Result < MAX 1.0
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 10000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **Phenols**

According to: POP EU/2019/1021 on PCP content.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Phenol, 2-methyl-4,6-dinitro-	Not Detected	Result <= MAX 10000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0



## Tested parts

Part description: **black tire**

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000
Benzidine	Not Detected	Result <= MAX 1000
4 Chloroaniline	Not Detected	Result <= MAX 1000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000
p Cresidine	Not Detected	Result <= MAX 1000
24 Diaminotoluene	Not Detected	Result <= MAX 1000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000
44 Oxydianiline	Not Detected	Result <= MAX 1000
44 Thiodianiline	Not Detected	Result <= MAX 1000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000
Phenylazoaniline	Not Detected	Result <= MAX 1000
o Anisidine	Not Detected	Result <= MAX 1000
Aniline	Not Detected	Result <= MAX 10000

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	Not Detected	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	Not Detected	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	7.1 ppm	Result <= MAX 1000000

## Tested parts

Part description: **black tire**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 1

Component	Result	Specification
Phenanthrene	Not Detected	Result <= MAX 1
Anthracene	Not Detected	Result <= MAX 1
Fluoranthene	Not Detected	Result <= MAX 1
Pyrene	Not Detected	Result <= MAX 1
Naphthalene	Not Detected	Result <= MAX 1
sum of 4 PAH	Not detected	Result <= MAX 1
sum of 15 PAH	Not detected	Result <= MAX 1
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	10 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	0 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 3000
4 tert Octylphenol	68903 ppm	
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Formaldehyde oligomer reaction products	0 ppm	
Bisphenol A	Not Detected	Result <= MAX 3000
MCCP	Not detected	

Part description: **dark blue coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT





## Tested parts

Part description: **dark blue coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	1000 ppm	Result <= MAX 1000
DIHppP	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	1000 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2



## Tested parts

Part description: **dark blue coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	100 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **white coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000



## Tested parts

Part description: **white coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	200 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	200 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2

## Tested parts

Part description: **white coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	100 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **purple coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000

## Tested parts

Part description: **purple coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2



## Tested parts

Part description: **purple coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	5.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **light blue coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000



## Tested parts

Part description: **light blue coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHpP	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2



## Tested parts

Part description: **light blue coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Acenaphthylene	4.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **red coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000

## Tested parts

Part description: **red coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHpP	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000

## Tested parts

Part description: **red coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **green coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000

## Tested parts

Part description: **green coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5

## Tested parts

Part description: **green coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **yellow coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000



## Tested parts

Part description: **yellow coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DEHP	0 ppm	Result <= MAX 1000
DIHPp	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5

## Tested parts

Part description: **yellow coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **black coating**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIHPP	0 ppm	Result <= MAX 3000

## Tested parts

Part description: **black coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIHxP	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **SCCP, Chloroparaffins**

**According to:** Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

**According to:** Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

**Testing conditions:** AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	0.0 ppm	Result <= MAX 0.2
Benzo a anthracene	0.0 ppm	Result <= MAX 0.2
Chrysene	0.0 ppm	Result <= MAX 0.2
Benzo b fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo k fluoranthene	0.0 ppm	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	0.0 ppm	Result <= MAX 0.2
Benzo e pyrene	0.0 ppm	Result <= MAX 0.2
Indeno 123cd pyrene	0.0 ppm	Result <= MAX 0.2
Benzo ghi perylene	0.0 ppm	Result <= MAX 0.2
Acenaphthylene	0.0 ppm	Result <= MAX 1000000
Acenaphthene	0.0 ppm	Result <= MAX 1000000
Fluorene	0.0 ppm	Result <= MAX 1000000
Phenanthrene	0.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	0.0 ppm	Result <= MAX 5
Pyrene	0.0 ppm	Result <= MAX 5
Naphthalene	0.0 ppm	Result <= MAX 2

## Tested parts

Part description: **black coating**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
sum of 4 PAH	Not detected	Result <= MAX 5
sum of 15 PAH	Not detected	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	Not detected	Result <= MAX 1000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	100 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	2000 ppm	Result <= MAX 1000000

Part description: **black gearbox**

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 1000000
DPP	0 ppm	Result <= MAX 1000000
DIPP	0 ppm	Result <= MAX 1000000
BBP	0 ppm	Result <= MAX 1000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DNOP	0 ppm	Result <= MAX 1000000
DINP	0 ppm	Result <= MAX 1000000
DIDP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

## Tested parts

Part description: **black gearbox**

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000000
Benzidine	Not Detected	Result <= MAX 1000000
4 Chloroaniline	Not Detected	Result <= MAX 1000000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000000
p Cresidine	Not Detected	Result <= MAX 1000000
24 Diaminotoluene	Not Detected	Result <= MAX 1000000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000000
44 Oxydianiline	Not Detected	Result <= MAX 1000000
44 Thiodianiline	Not Detected	Result <= MAX 1000000
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000000
Phenylazoaniline	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000000
Aniline	Not Detected	Result <= MAX 1000000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

## Tested parts

Part description: **black gearbox**

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Hexachlorobenzene	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Dieldrin	Not Detected	Result < MAX 1.0
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
MonoBDE	118 ppm	Result <= MAX 1000
TriBDE	Not Detected	Result <= MAX 1000
TetraBDE	Not Detected	Result <= MAX 500
PentaBDE	Not Detected	Result <= MAX 500
HexaBDE	Not Detected	Result <= MAX 500
HeptaBDE	Not Detected	Result <= MAX 500
NonaBDE	Not Detected	Result <= MAX 1000
DecaBDE	Not Detected	Result <= MAX 500
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 1000000
2 AMINO NAPHTHALENE	Not Detected	Result < MAX 1000000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	39 ppm	Result <= MAX 100

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14





## Tested parts

Part description: **black gearbox**

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 1000000
Benzo a anthracene	16.1 ppm	Result <= MAX 1000000
Chrysene	17.6 ppm	Result <= MAX 1000000
Anthracene	6.9 ppm	Result <= MAX 1000000
Anthracene oils and pastes	7 ppm	Result <= MAX 1000000
Coal tar	66 ppm	Result <= MAX 1000000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	10 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Phenolphtalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Formaldehyde oligoment reaction products	0 ppm	
Bisphenol A	Not Detected	
MCCP	Not detected	



## Tested parts

Part description: **black gearbox**

Part description: **green gears**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 1000000
DPP	0 ppm	Result <= MAX 1000000
DIPP	0 ppm	Result <= MAX 1000000
BBP	0 ppm	Result <= MAX 1000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DNOP	0 ppm	Result <= MAX 1000000
DINP	0 ppm	Result <= MAX 1000000
DIDP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **PAA**

**According to:** TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Aminoazotoluene	Not Detected	Result <= MAX 1000000
4 Aminobiphenyl	Not Detected	Result <= MAX 1000000
Benzidine	Not Detected	Result <= MAX 1000000
4 Chloroaniline	Not Detected	Result <= MAX 1000000
4 Chloro o Toluidine	Not Detected	Result <= MAX 1000000
p Cresidine	Not Detected	Result <= MAX 1000000
24 Diaminotoluene	Not Detected	Result <= MAX 1000000
33 Dichlorobenzidine	Not Detected	Result <= MAX 1000000
33 Dimethoxybenzidine	Not Detected	Result <= MAX 1000000
33 Dimethylbenzidine	Not Detected	Result <= MAX 1000000
Bis 3 chloro 4 aminophenyl methane	Not Detected	Result <= MAX 1000000
44 Oxydianiline	Not Detected	Result <= MAX 1000000
44 Thiodianiline	Not Detected	Result <= MAX 1000000



## Tested parts

Part description: **green gears**

Analysis: **PAA**

According to: TSD 2009/48/EC - Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
o Toluidine	Not Detected	Result <= MAX 1000
245 Trimethylaniline	Not Detected	Result <= MAX 1000000
Phenylazoaniline	Not Detected	Result <= MAX 1000000
o Anisidine	Not Detected	Result <= MAX 1000000
Aniline	Not Detected	Result <= MAX 1000000

Analysis: **PCB**

According to: POP COMMISSION REGULATION No EC 2019/1021

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chlorobiphenyl	Not Detected	Result <= MAX 1.0
Dichlorobiphenyl	Not Detected	Result <= MAX 1.0
Trichlorobiphenyl	Not Detected	Result <= MAX 1.0
Tetrachlorobiphenyl	Not Detected	Result <= MAX 1.0
Pentachlorobiphenyl	Not Detected	Result <= MAX 1.0
Hexachlorobiphenyl	Not Detected	Result <= MAX 1.0
Heptachlorobiphenyl	Not Detected	Result <= MAX 1.0
Octachlorobiphenyl	Not Detected	Result <= MAX 1.0
Decachlorobiphenyl	Not Detected	Result <= MAX 1.0

Analysis: **OCP & DMF**

According to: Reach 1907/2006 Annex XVII, entry 61 on DMF

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Hexachlorobenzene	Not Detected	Result < MAX 1.0
Aldrin	Not Detected	Result < MAX 1.0
Endrin	Not Detected	Result < MAX 1.0
Dieldrin	Not Detected	Result < MAX 1.0
Endosulfan Sulfate	Not Detected	Result < MAX 1,0
Methoxychlor	Not Detected	Result < MAX 1.0
Mirex	Not Detected	Result < MAX 1.0
Hexachloro-1-3-butadiene	Not Detected	Result < MAX 1.0
Kepone	Not Detected	Result < MAX 1.0

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.



## Tested parts

Part description: **green gears**

Analysis: **Flame retardants (PBDE and PBB)**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on PBDE.

Testing conditions: 111/54/CDV & IEC 62321

Component	Result	Specification
MonoBDE	Not Detected	Result <= MAX 1000
DiBDE	Not Detected	Result <= MAX 1000
TriBDE	Not Detected	Result <= MAX 1000
TetraBDE	Not Detected	Result <= MAX 500
PentaBDE	Not Detected	Result <= MAX 500
HexaBDE	Not Detected	Result <= MAX 500
HeptaBDE	Not Detected	Result <= MAX 500
OctaBDE	Not Detected	Result <= MAX 1000
NonaBDE	Not Detected	Result <= MAX 1000
DecaBDE	Not Detected	Result <= MAX 500
MONOBROMOBIPHENYL	Not Detected	Result < MAX 1
DIBROMOBIPHENYL	Not Detected	Result < MAX 1
TRIBROMOBIPHENYL	Not Detected	Result < MAX 1
TETRABROMOBIPHENYL	Not Detected	Result < MAX 1
PENTABROMOBIPHENYL	Not Detected	Result < MAX 1
HEXABROMOBIPHENYL	Not Detected	Result < MAX 1
HEPTABROMOBIPHENYL	Not Detected	Result < MAX 1
OCTABROMOBIPHENYL	Not Detected	Result < MAX 1
NONABROMOBIPHENYL	Not Detected	Result < MAX 1
DECABROMOBIPHENYL	Not Detected	Result < MAX 1
PBDE Total POP	Not detected	Result <= MAX 500

Analysis: **SVOC & CMR**

According to: Reach 1907/2006 Annex XVII, entry 28-29-30, CMR content

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
PENTACHLOROETHANE	Not Detected	Result < MAX 1000000
2 AMINO NAPHTHALENE	1 ppm	Result < MAX 1000000
DIPHENYL AMINE	Not Detected	Result < MAX 100
BENZYLALCOHOL	Not Detected	Result <= MAX 100

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result < MAX 1500



## Tested parts

Part description: **green gears**

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 1000000
Benzo a anthracene	Not Detected	Result <= MAX 1000000
Chrysene	Not Detected	Result <= MAX 1000000
Anthracene	Not Detected	Result <= MAX 1000000
Anthracene oils and pastes	Not detected	Result <= MAX 1000000
Coal tar	Not detected	Result <= MAX 1000000

Analysis: **Heavy metals content**

According to: Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

Testing conditions: 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	0 ppm	Result <= MAX 100
Lead	0 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	5 ppm	Result <= MAX 1000000
Chlorine	0 ppm	Result <= MAX 1000000

Analysis: **SVHC**

According to: Reach 1907/2006 art 33-57 on SVHC

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
TCEP	Not Detected	Result <= MAX 3000
4 tert Octylphenol	Not Detected	
Nonyl Phenol	Not Detected	Result <= MAX 100
Phenolphthalein	Not Detected	Result <= MAX 1000
Basic Violet 3	Not Detected	Result <= MAX 10000
Formaldehyde oligomer reaction products	0 ppm	
Bisphenol A	Not Detected	
MCCP	Not detected	

Part description: **orange coating**

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
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## Tested parts

Part description: **orange coating**

Analysis: **SCCP, Chloroparaffins**

According to: Regulation (EC) 2019/1021 - Persistent Organic Pollutants (POP) on SCCP.

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
Chloroparaffins total	0 ppm	Result <= MAX 1500

Analysis: **PAH (15 ZEK - EPA)**

According to: Geprüfte Sicherheit (GS) - AfPS Polyzyklischen Aromatischen Kohlenwasserstoffen (PAK)

Testing conditions: AfPS GS 2014:01 PAK Category 2

Component	Result	Specification
Benzo a pyrene	Not Detected	Result <= MAX 0.2
Benzo a anthracene	Not Detected	Result <= MAX 0.2
Chrysene	Not Detected	Result <= MAX 0.2
Benzo b fluoranthene	Not Detected	Result <= MAX 0.2
Benzo k fluoranthene	Not Detected	Result <= MAX 0.2
Dibenz ah anthracene	0.0 ppm	Result <= MAX 0.2
Benzo j fluoranthene	Not Detected	Result <= MAX 0.2
Benzo e pyrene	Not Detected	Result <= MAX 0.2
Indeno 123cd pyrene	Not Detected	Result <= MAX 0.2
Benzo ghi perylene	Not Detected	Result <= MAX 0.2
Acenaphthylene	3.0 ppm	Result <= MAX 1000000
Acenaphthene	Not Detected	Result <= MAX 1000000
Fluorene	Not Detected	Result <= MAX 1000000
Phenanthrene	1.0 ppm	Result <= MAX 5
Anthracene	0.0 ppm	Result <= MAX 5
Fluoranthene	Not Detected	Result <= MAX 5
Pyrene	Not Detected	Result <= MAX 5
Naphthalene	Not Detected	Result <= MAX 2
sum of 4 PAH	1 ppm	Result <= MAX 5
sum of 15 PAH	1 ppm	Result <= MAX 5
Anthracene oils and pastes	Not detected	Result <= MAX 1000
Coal tar	1 ppm	Result <= MAX 1000

Analysis: **Phthalates**

According to: Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

Testing conditions: CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DMP	0 ppm	Result <= MAX 1000000
DEP	0 ppm	Result <= MAX 1000000
DAP	0 ppm	Result <= MAX 1000000



## Tested parts

Part description: **orange coating**

Analysis: **Phthalates**

**According to:** Reach (EC) 1907/2006 - Annex XVII, entry 51-52 on phthalates content and entry 28-29-30 on CMR content. Phthalates Regulations SOR/2016-188 CANADA CONSUMER PRODUCT SAFETY ACT

**Testing conditions:** CPSC\_CH\_C1001-09.3 EPA3546 / ASTM D7823-14

Component	Result	Specification
DIBP	0 ppm	Result <= MAX 1000
DBP	0 ppm	Result <= MAX 1000
DMEP	0 ppm	Result <= MAX 3000
DPP	0 ppm	Result <= MAX 3000
DIPP	0 ppm	Result <= MAX 3000
nPiPP	0 ppm	Result <= MAX 3000
BBP	0 ppm	Result <= MAX 1000
DHP	0 ppm	Result <= MAX 3000
DEEP	0 ppm	Result <= MAX 1000000
DEHP	0 ppm	Result <= MAX 1000
DIH <sub>p</sub> P	0 ppm	Result <= MAX 3000
DNOP	0 ppm	Result <= MAX 1000
DINP	0 ppm	Result <= MAX 1000
DIDP	0 ppm	Result <= MAX 1000
DIH <sub>x</sub> P	0 ppm	Result <= MAX 1000000
DHNUP	0 ppm	Result <= MAX 1000000
Phthalates (Toys mouthable)	0 ppm	Result <= MAX 1000
Phthalates (Toys all ages)	0 ppm	Result <= MAX 1000

Analysis: **Heavy metals content**

**According to:** Reach (EC) 1907/2006 - Annex XVII entry 20-21 on Organostannic, 23 on Cadmium, 62 on Mercury, 63 on Lead & Ban of products containing lead - BEK 856.

**Testing conditions:** 111/54/CDV & IEC 62321 & NPR-CR 10299

Component	Result	Specification
Cadmium	20 ppm	Result <= MAX 100
Lead	100 ppm	Result <= MAX 100
Mercury	0 ppm	Result <= MAX 100
Tin	0 ppm	Result <= MAX 1000000

\*\*\* END OF REPORT \*\*\*

