TEST REPORT
Report No.: ATL20190614466R01

Company:	Hengyang Ritar Power Co.,Ltd.
Address:	No.1 Huagong Road, Songmu Industrial Park, Hengyang, Hunan, China
Date Received:	June. 05, 2019
Testing Period:	From June. 05, 2019 to June. 17, 2019

SAMPLE INFORMATION:

Description:	Valve Regulated sealed lead-acid Battery
Model No.:	RT1275
Brand Mark:	N/A
Manufacturer::	Hengyang Ritar Power Co.,Ltd.
Address:	No.1 Huagong Road, Songmu Industrial Park, Hengyang, Hunan, China

Test Requested:	Conclusion:
REACH Regulation (EC) No. 1907/2006;PAHs(Polynuclear Aromatic Hydrocarbons)	Pass

As specified by client,to screen the 198 substances of very high concern(SVHC)under Regulation(EC)No 1907/2006 of Reach in the submitted sample(s)

According to the analytical results, concentrations of 198 SVHC substances are less than 0.1% (w/w) in the submitted sample.

Check by : Jane He Date : 2019-06-17

(Jane He)

Approved by : Rose fang Date : 2019-06-17

(Rose fang)

1. Test Results

1.1 Reach Svhcs On The Candidate List, Published In October 2008 By Echa

Test method: Screeing test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Anthracene	120-12-7	204-371-1	<0.10
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	<0.10
Dibutyl phthalate (DBP)	84-74-2	201-557-4	<0.10
Cobalt dichloride*	7646-79-9	231-589-4	<0.10
Diarsenic pentaoxide*	1303-28-2	215-116-9	<0.10
Diarsenic trioxide*	1327-53-3	215-481-4	<0.10
Sodium dichromate*	7789-12-0 and 10588-01-9	234-190-3	<0.10
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	<0.10
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	<0.10
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-HBCDD, Beta-HBCDD, Gamma-HBCDD	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4 and 221-695-9	<0.10
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	<0.10
Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	<0.10
Lead hydrogen arsenate*	7784-40-9	232-064-2	<0.10
Butyl benzyl phthalate (BBP)	85-68-7	201-622-7	<0.10
Triethyl arsenate*	15606-95-8	427-700-2	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.2 Reach Svhcs On The Candidate List, Published In January 2010 And March 2010 By Echa

Test method: Screeing test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Anthracene oil#	90640-80-5	292-602-7	<0.10
Anthracene oil, anthracene paste, distn. lights#	91995-17-4	295-278-5	<0.10
Anthracene oil, anthracene paste, anthracene fraction#	91995-15-2	295-275-9	<0.10
Anthracene oil, anthracene-low#	90640-82-7	292-604-8	<0.10
Anthracene oil, anthracene paste#	90640-81-6	292-603-2	<0.10
Pitch, coal tar, high temp #	65996-93-2	266-028-2	<0.10
2,4-Dinitrotoluene	121-14-2	204-450-0	<0.10
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	<0.10
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	<0.10
Lead chromate*	7758-97-6	231-846-0	<0.10
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	<0.10
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	<0.10
Acrylamide	79-06-1	201-173-7	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- "#" denotes the substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents.
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.3 Reach Svhcs On The Candidate List, Published In June 2010 By Echa

Test method: Screeing test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Trichloroethylene	79-01-6	201-167-4	<0.10
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	<0.10
Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	215-540-4	<0.10
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	<0.10
Sodium chromate*	7775-11-3	231-889-5	<0.10
Potassium chromate*	7789-00-6	232-140-5	<0.10
Ammonium dichromate*	7789-9-5	232-143-1	<0.10
Potassium dichromate*	7778-50-9	231-906-6	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.4 Reach Svhcs On The Candidate List, Published In December 2010 By Echa

Test method: Screeing test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Cobalt(II) sulphate*	10124-43-3	233-334-2	<0.10
Cobalt(II) dinitrate*	10141-05-6	233-402-1	<0.10
Cobalt(II) carbonate*	513-79-1	208-169-4	<0.10
Cobalt(II) diacetate*	71-48-7	200-755-8	<0.10
2-Methoxyethanol	109-86-4	203-713-7	<0.10
2-Ethoxyethanol	110-80-5	203-804-1	<0.10
Chromium trioxide*	1333-82-0	215-607-8	<0.10
Acids generated from chromium trioxide and their oligomers*	7738-94-5 13530-68-2 not yet assigned	231-801-5 236-881-5 not yet assigned	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.5 Reach Svhcs On The Candidate List, Published In June 2011 By Echa

Test method: Screeing test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
2-Ethoxyethyl acetate (2-EEA)	111-15-9	203-839-2	<0.10
Strontium chromate*	7789-06-2	232-142-6	<0.10
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)#	68515-42-4	271-084-6	<0.10
Hydrazine	7803-57-8, 302-01-2	206-114-9	<0.10
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	<0.10
1,2,3-Trichloropropane	96-18-4	202-486-1	<0.10
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	<0.10

Note:

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- "<" denotes less than
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- "#" denotes the substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents.
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.6 Reach Svhcs On The Candidate List, Published In December 2011 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
1,2-Dichloroethane	107-06-2	203-458-1	<0.10
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	<0.10
2-Methoxyaniline, o-Anisidine	90-04-0	201-963-1	<0.10
4-(1,1,3,3-Tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	<0.10
Aluminosilicate Refractory Ceramic Fibres (RCF)	--	---	<0.10
Arsenic acid*	7778-39-4	231-901-9	<0.10
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	<0.10
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	<0.10
Calcium arsenate*	7778-44-1	231-904-5	<0.10
Dichromium tris(chromate) *	24613-89-6	246-256-2	<0.10
Formaldehyde, oligomeric reaction products with aniline (technical MDA) #	25214-70-4	500-036-1	<0.10
Lead diazide*	13424-46-9	9236-542-1	<0.10
Lead dipicrate*	6477-64-1	229-335-2	<0.10
Lead styphnate*	15245-44-0	239-290-0	<0.10

Note:

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- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
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(Continued)

Substance Name	Cas No.	Einecs No.	RESULT [%]
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	<0.10
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	<0.10
Phenolphthalein	77-09-8	201-004-7	<0.10
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	<0.10
Trilead diarsenate*	3687-31-8	222-979-5	<0.10
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) *	--	---	<0.10

Note:

- "%" denotes percent by weight
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- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.7 Reach Svhcs On The Candidate List, Published In June 2012 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	<0.10
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	<0.10
Diboron trioxide*	1303-86-2	215-125-8	<0.10
Formamide	75-12-7	200-842-0	<0.10
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	<0.10
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3	<0.10
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	<0.10
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	<0.10
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	<0.10

Note:

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- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

(Continued)

Substance Name	Cas No.	Einecs No.	RESULT [%]
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	219-943-6	<0.10
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	208-953-6	<0.10
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2	<0.10
α ,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ⩾ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8	<0.10

Note:

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- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.8 Reach Svhcs On The Candidate List, Published In December 2012 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	<0.10
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	<0.10
1,2-Diethoxyethane	629-14-1	211-076-1	<0.10
1-Bromopropane	106-94-5	203-445-0	<0.10
3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	<0.10
4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated			<0.10
4,4'-Methylenedi-o-toluidine	838-88-0	212-658-8	<0.10
4,4'-Oxydianiline	101-80-4	202-977-0	<0.10
4-Aminoazobenzene	60-09-3	200-453-6	<0.10
4-Methyl-m-phenylenediamine	95-80-7	202-453-1	<0.10
4-Nonylphenol, branched and linear			<0.10
6-Methoxy-m-toluidine	120-71-8	204-419-1	<0.10
Acetic acid, lead salt, basic	51404-69-4	257-175-3	<0.10
Biphenyl-4-ylamine	92-67-1	202-177-1	<0.10
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	<0.005
Diazene-1,2-dicarboxamide(C'-azodi(formamide))	123-77-3	204-650-8	<0.10
Dibutyltin dichloride	683-18-1	211-670-0	<0.10
Diethyl sulphate	64-67-5	200-589-6	<0.10
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	<0.10
Dimethyl sulphate	77-78-1	201-058-1	<0.10
Dinoseb	88-85-7	201-861-7	<0.10

Note:

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- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be

provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

(Continued)

Substance Name	Cas No.	Einecs No.	RESULT [%]
Dioxobis(stearato)trilead	12578-12-0	235-702-8	<0.10
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	<0.10
Furan	110-00-9	203-727-3	<0.10
Henicosafluoroundecanoic acid	2058-94-8	218-165-4	<0.10
Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	<0.10
Hexahydro-2-benzofuran-1,3-dione, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	201-604-9, 236-086-3 238-009-9	<0.10
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1, 243-072-0, 48122-14-1 260-566-1	<0.10
Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	<0.10
Lead cyanamidate*	20837-86-9	244-073-9	<0.10
Lead dinitrate*	10099-74-8	233-245-9	<0.10
Lead monoxide*	1317-36-8	1317-36-8	<0.10
Lead oxide sulphate*	12036-76-9	234-853-7	<0.10
Lead tetroxide*	1314-41-6	215-235-6	<0.10
Lead titanium trioxide*	12060-00-3	235-038-9	<0.10
Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	<0.10
Methoxyacetic acid	625-45-6	210-894-6	<0.10
N,N-dimethylformamide	68-12-2	200-679-5	<0.10

Note:

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- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

(Continued)

Substance Name	Cas No.	Einecs No.	RESULT [%]
N-methylacetamide	79-16-3	201-182-6	<0.10
N-pentyl-isopentylphthalate	776297-69-9		<0.10
o-Aminoazotoluene	97-56-3	202-591-2	<0.10
o-Toluidine	95-53-4	202-429-0	<0.10
Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	<0.10
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	<0.10
Propylene oxide	75-56-9	200-879-2	<0.10
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	<0.10
Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	<0.10
Silicic acid, lead salt*	11120-22-2	234-363-3	<0.10
Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	<0.10
Tetraethyllead	78-00-2	201-075-4	<0.10
Tetralead trioxide sulphate	12202-17-4	235-380-9	<0.10
Tricosafluorododecanoic acid	307-55-1	206-203-2	<0.10
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	<0.10
Trilead dioxide phosphonate	12141-20-7	235-252-2	<0.10

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.9 Reach Svhcs On The Candidate List, Published In June 2013 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Cadmium	7440-43-9	231-152-8	<0.10
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	<0.10
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	<0.10
Dipentyl phthalate (DPP)	131-18-0	205-017-9	<0.10
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--	--	<0.10
Cadmium oxide	1306-19-0	215-146-2	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.10 Reach Svhcs On The Candidate List, Published In December 2013 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Cadmium sulphide	215-147-8	1306-23-6	<0.10
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	209-358-4	573-58-0	<0.10
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	<0.10
Dihexyl phthalate	201-559-5	84-75-3	<0.10
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	<0.10
Lead di(acetate)	206-104-4	301-04-2	<0.10
Trixylyl phosphate	246-677-8	25155-23-1	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.11 Reach Svhcs On The Candidate List, Published In April 2014 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF). [Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	<0.10
Cadmium chloride	233-296-7	10108-64-2	<0.10
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	--	<0.10
Sodium peroxometaborate	231-556-4	10108-64-2	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.12 Reach Svhcs On The Candidate List, Published In April 2014 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	<0.10
2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	3846-71-7	223-346-6	<0.10
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	239-622-4	<0.10
Cadmium fluoride	7790-79-6	232-222-0	<0.10
Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6	<0.10
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	------	------	<0.10
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with _ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	<0.10
-5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclo	-----	------	<0.10

hex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]			

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.13 Reach Svhcs On The Candidate List, Published In April 2014 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
3-propanesultone	1120-71-4	214-317-9	<0.10
4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	3864-99-1	223-383-8	<0.10
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	36437-37-3	253-037-1	<0.10
Nitrobenzene	98-95-3	202-716-0	<0.10
Perfluorononan-1-oic acid	375-95-1 21049-39-8 4149-60-4	206-801-3	

Note:

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- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.14 Reach Svhcs On The Candidate List, Published In April 2016 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptane-2-one (4-methylbenzylidene camphor)	36861-47-9	253-242-6	<0.10
1,7,7-trimethyl-3-(phenylmethyl ene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	<0.10
[def]chrysene (Benzo[a]pyrene)	15087-24-8	239-139-9	<0.10
Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.15 Reach Svhcs On The Candidate List, Published In June 2016 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Benzo[a]pyrene	50-32-8	200-028-5	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.16 Reach Svhcs On The Candidate List, Published In June 2016 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Bisphenol A(BPA)	80-05-7	201-245-8	<0.10
Nonadecafluorodecanoic acid(PFDA)and its sodium and ammonium salts	3108-42-7,335-76-2,3830-45-3	206-400-3,221-470-5	<0.10
4-heptylphenol,branched and linear(4-HPbl)	---	---	<0.10
4-tert-amylphenol(PTAP)	80-46-6	201-280-9	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.17 Reach Svhcs On The Candidate List, Published In July 2017 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Perfluorohexane-1-sulphonicacid and its salts	355-46-4	206-587-1	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.18 Reach Svhcs On The Candidate List, Published In January 2018 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Chrysene	218-01-9	205-923-4	<0.10
Benz[a]anthracene	56-55-3	200-280-6	<0.10
Cadmium nitrate	10325-94-7	233-710-6	<0.10
Cadmium hydroxide	21041-95-2	244-168-5	<0.10
Cadmium carbonate	513-78-0	08-168-9	<0.10
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("DechloranePlus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	vPvB (Article 57e)	-	<0.10
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ⩾ 0.1%w/w 4-heptylphenol, branched and linear]	Endocrine disrupting properties (Article 7(f) – environment)	-	<0.10

Note:

— "%" denotes percent by weight

— "<" denotes less than

— "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).

— As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.19 Reach Svhcs On The Candidate List, Published In Jane 2018 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride;TMA)	552-30-7	209-008-0	<0.10
Benzo【ghi】perylene	191-24-2	205-883-8	<0.10
Decamethylcyclopentasiloxane(D5)	541-02-6	208-764-9	<0.10
Dicyclohexyl phthalate(DCHP)	84-61-7	201-545-9	<0.10
Disodium octaborate	12008-41-2	234-541-0	<0.10
Doducamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	<0.10
Ethylenediamine(EDA)	107-15-3	203-468-6	<0.10
Lead	7439-92-1	231-100-4	<0.10
Octamethylcyclotetrasiloxane(D 4)	556-67-2	209-136-7	<0.10
Terphenyl,hydrogenated	61788-32-7	262-967-7	<0.10

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.20 Reach Svhcs On The Candidate List, Published In Jan 2019 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
1,7,7-trimethyl-3-(phenylmethylene)bicyclo【2.2.1】heptan-2-one	15087-24-8	239-139-9	<0.10
2,2-bis(4′-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	<0.10
Benzo【k】fluoranthene	207-08-9	205-916-6	<0.10
Fluoranthene	206-44-0;93951-69-0	205-912-4	<0.10
Phenanthrene	85-01-08	201-581-5	<0.10
Pyrene	129-00-0;1718-52-1	204-927-3	<0.10

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

1.21 Reach Svhcs On The Candidate List, Published In Feb 2019 By Echa

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spctrometer (XRF).

[Reporting limit: 0.10%]

Substance Name	Cas No.	Einecs No.	RESULT [%]
4-tert-butylphenol(PTBT)	15087-24-8	------	<0.10

Note:

- "%" denotes percent by weight
- "<" denotes less than
- "*" denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

SAMPLE PHOTO

Fig. 1

****End of Report****