



Test Report

No.: S241230080001-1

Date: Jan 08, 2025

Page 1 of 24

Customer: Sharkoon Technologies GmbH

Customer Address: Grüninger Weg 48,35415 Pohlheim, Germany

Sample Name: BRUSHLESS DC FAN

Model: SHARK Lights RGB PWM-B
SHARK Lights RGB PWM-W

Sample Quantity: 2

Manufacturer: Sharkoon Technologies GmbH

The above samples and information are provided by the customer

Sample Received Date: Dec 30, 2024

Test Period: Dec 30, 2024 to Jan 07, 2025

Test Requirements: Test according to customer requirement

Test Method: Please refer to next page(s)

Test Result: Please refer to next page(s)

Test Conclusion: **PASS**

WRITTEN BY

Zoey Zhang

Zoey Zhang

REVIEWED BY

Kira Fu

Kira Fu

Soar Testing Certification
(GuangDong) Co., Ltd.

APPROVED BY

Eric Wu Frank Wu

Eric Wu Frank Wu

Approved signatory

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Lab name: Soar Testing Certification (GuangDong) Co., Ltd.
Post Code: 523945

Tel: (86-769) 38937518

Address: Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
E-mail: service@soar-cert.com

Website: http://www.soartestlab.com

**Result Summary:**

| Test Requested | Conclusion |
|---|-------------|
| 1. As specified by client, SVHC screening is performed according to: Two hundred and forty-two (242) Substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemical Agency (ECHA) on and before Nov 07, 2024 published by European Chemical Agency (ECHA) regarding regulation (EC) No 1907/2006 concerning the REACH. According to the specified scope and analytical techniques, concentrations of SVHC(242 SVHC) are less than 0.1%(w/w) in the sample. | PASS |
| 2. According to customer requirements, screening tests were conducted on 13 potential intention SVHC substances submitted by EU member states to the European Chemical Administration (ECHA). | PASS |
| 3. According to customer requirements, screen and test 1 Assessing SVHC substance submitted by EU member states to the European Chemical Administration (ECHA). | PASS |

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**Test Result(s):****Description of test sample:**

| Sample No. | Item / Component Description(s) | Location(s) | Style(s) / Model(s) |
|------------|---------------------------------|----------------|--|
| 1. | Non-metal(mixed) | Refer to photo | SHARK Lights RGB PWM-B SHARK Lights RGB PWM-W |
| 2. | Metal(mixed) | Refer to photo | SHARK Lights RGB PWM-B SHARK Lights RGB PWM-W |

Test method: Refer to in-house method for sample pretreatment, analysis was performed by ICP-OES, UV-Vis, HPLC-PDA, GC-MS and LC-MS/MS.

1. **As specified by client, SVHC screening is performed according to: Two hundred and forty-two (242) Substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemical Agency (ECHA) on and before Nov 07, 2024 published by European Chemical Agency (ECHA) regarding regulation (EC) No 1907/2006 concerning the REACH. According to the specified scope and analytical techniques, concentrations of SVHC(242 SVHC) are less than 0.1%(w/w) in the sample.**

| Chemical Substance | Unit | Result |
|---------------------------------------|--------|--------|
| | | No.1 |
| All Tested 242 SVHCs in Chemical List | %(w/w) | N.D. |

| Chemical Substance | Unit | Result |
|--|--------|--------|
| | | No.2 |
| All Tested 73 SVHCs in Chemical List** | %(w/w) | N.D. |

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**242 SVHCs Chemical List**

| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|---------------------|--|--|------------------------|-------|
| First batch | | | | |
| 1 | Anthracene | 120-12-7 | 204-371-1 | 0.010 |
| 2 | 4,4'-Diaminodiphenylmethane | 101-77-9 | 202-974-4 | 0.010 |
| 3 | Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | 0.010 |
| 4 | Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 204-211-0 | 0.010 |
| 5 | Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | 0.010 |
| 6 | Bis(tributyltin)oxide (TBTO) | 56-35-9 | 200-268-0 | 0.010 |
| 7 | 5-tert-butyl-2,4,6-trinitro-m-xylene | 81-15-2 | 201-329-4 | 0.010 |
| 8 | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:(α -HBCDD, β -HBCDD, γ -HBCDD) | 25637-99-4 3194-55-6 (134237-51-7 134237-50-6 134237-52-8) | 247-148-4 221-695-9 | 0.010 |
| 9 | Alkanes, C10-13 chloro (short chain chlorinated paraffins, SCCP) | 85535-84-8 | 287-476-5 | 0.010 |
| 10 | Lead hydrogen arsenate** | 7784-40-9 | 232-064-2 | 0.010 |
| 11 | Triethyl arsenate** | 15606-95-8 | 427-700-2 | 0.010 |
| 12 | Diarsenic pentaoxide ** | 1303-28-2 | 215-116-9 | 0.010 |
| 13 | Diarsenic trioxide** | 1327-53-3 | 215-481-4 | 0.010 |
| 14 | Cobalt dichloride** | 7646-79-9 | 231-589-4 | 0.010 |
| 15 | Sodium dichromate** | 7789-12-0 10588-01-9 | 234-190-3 | 0.010 |
| Second batch | | | | |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|--------------------|--|--------------------------------------|------------------------|-------|
| 16 | Anthracene oil | 90640-80-5 | 292-602-7 | 0.010 |
| 17 | Anthracene oil, anthracene paste, distn. Lights | 91995-17-4 | 295-278-5 | 0.010 |
| 18 | Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | 0.010 |
| 19 | Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | 0.010 |
| 20 | Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 | 0.010 |
| 21 | Diisobutyl phthalate (DIBP) | 84-69-5 | 201-553-2 | 0.010 |
| 22 | 2,4-Dinitrotoluene (2,4-DNT) | 121-14-2 | 204-450-0 | 0.010 |
| 23 | Lead chromate** | 7758-97-6 | 231-846-0 | 0.010 |
| 24 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ** | 12656-85-8 | 235-759-9 | 0.010 |
| 25 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)** | 1344-37-2 | 215-693-7 | 0.010 |
| 26 | Pitch, coal tar, high temp. | 65996-93-2 | 266-028-2 | 0.010 |
| 27 | Tris(2-chloroethyl) phosphate (TCEP) | 115-96-8 | 204-118-5 | 0.010 |
| 28 | Acrylamide | 79-06-1 | 201-173-7 | 0.010 |
| Third batch | | | | |
| 29 | Trichloroethylene | 79-01-6 | 201-167-4 | 0.010 |
| 30 | Boric acid** | 10043-35-3 11113-50-1 | 233-139-2 234-343-4 | 0.010 |
| 31 | Disodium tetraborate, anhydrous** | 1330-43-4 12179-04-3 1303-96-4 | 215-540-4 | 0.010 |
| 32 | Tetraboron disodium heptaoxide, hydrate** | 12267-73-1 | 235-541-3 | 0.010 |
| 33 | Sodium chromate** | 7775-11-3 | 231-889-5 | 0.010 |

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|---------------------|---|--|------------|-----------|-------|
| 34 | Potassium chromate** | 7789-00-6 | 232-140-5 | 0.010 | |
| 35 | Ammonium dichromate** | 7789-09-5 | 232-143-1 | 0.010 | |
| 36 | Potassium dichromate** | 7778-50-9 | 231-906-6 | 0.010 | |
| Fourth batch | | | | | |
| 37 | Chromium trioxide** | 1333-82-0 | 215-607-8 | 0.010 | |
| 38 | 2-Methoxyethanol | 109-86-4 | 203-713-7 | 0.010 | |
| 39 | 2-Ethoxyethanol | 110-80-5 | 203-804-1 | 0.010 | |
| 40 | Cobalt(II) diacetate** | 71-48-7 | 200-755-8 | 0.010 | |
| 41 | Cobalt(II) carbonate** | 513-79-1 | 208-169-4 | 0.010 | |
| 42 | Cobalt(II) dinitrate** | 10141-05-6 | 233-402-1 | 0.010 | |
| 43 | Cobalt(II) sulphate** | 10124-43-3 | 233-334-2 | 0.010 | |
| 44 | Acids generated from chromium trioxide and their oligomers Group containing: | Chromic acid** | 7738-94-5 | 231-801-5 | 0.010 |
| | | Dichromic acid** | 13530-68-2 | 236-881-5 | 0.010 |
| | | Oligomers of chromic acid and dichromic acid** | - | - | 0.010 |
| Fifth batch | | | | | |
| 45 | 2-ethoxyethyl acetate | 111-15-9 | 203-839-2 | 0.010 | |
| 46 | Strontium chromate ** | 7789-06-2 | 232-142-6 | 0.010 | |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | 271-084-6 | 0.010 | |
| 48 | Hydrazine | 7803-57-8 302-01-2 | 206-114-9 | 0.010 | |
| 49 | 1-methyl-2-pyrrolidone | 872-50-4 | 212-828-1 | 0.010 | |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|--------------------|---|------------|-----------|-------|
| 50 | 1,2,3-trichloropropane | 96-18-4 | 202-486-1 | 0.010 |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | 276-158-1 | 0.010 |
| Sixth batch | | | | |
| 52 | Dichromium tris(chromate) ** | 24613-89-6 | 246-356-2 | 0.010 |
| 53 | Potassium hydroxyoctaoxodizincate di-chromate** | 11103-86-9 | 234-329-8 | 0.010 |
| 54 | Pentazinc chromate octahydroxide ** | 49663-84-5 | 256-418-0 | 0.010 |
| 55 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | 500-036-1 | 0.010 |
| 56 | Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | 204-212-6 | 0.010 |
| 57 | 2-Methoxyaniline; o-Anisidine | 90-04-0 | 201-963-1 | 0.010 |
| 58 | 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) | 140-66-9 | 205-426-2 | 0.010 |
| 59 | 1,2-Dichloroethane | 107-06-2 | 203-458-1 | 0.010 |
| 60 | Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 | 0.010 |
| 61 | Arsenic acid** | 7778-39-4 | 231-901-9 | 0.010 |
| 62 | Calcium arsenate** | 7778-44-1 | 231-904-5 | 0.010 |
| 63 | Trilead diarsenate** | 3687-31-8 | 222-979-5 | 0.010 |
| 64 | N,N-dimethylacetamide (DMAC) | 127-19-5 | 204-826-4 | 0.010 |
| 65 | Phenolphthalein | 77-09-8 | 201-004-7 | 0.010 |
| 66 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | 202-918-9 | 0.010 |
| 67 | Lead azide; Lead diazide** | 13424-46-9 | 236-542-1 | 0.010 |
| 68 | Lead styphnate** | 15245-44-0 | 239-290-0 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|----------------------|--|------------|-----------|-------|
| 69 | Lead dipicrate** | 6477-64-1 | 229-335-2 | 0.010 |
| 70 | Aluminosilicate Refractory Ceramic Fibres (RCF)** | - | - | 0.010 |
| 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)** | - | - | 0.010 |
| Seventh batch | | | | |
| 72 | 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme) | 112-49-2 | 203-977-3 | 0.010 |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 203-794-9 | 0.010 |
| 74 | Diboron trioxide** | 1303-86-2 | 215-125-8 | 0.010 |
| 75 | Lead(II)bis(methanesulfonate)** | 17570-76-2 | 401-750-5 | 0.010 |
| 76 | Formamide | 75-12-7 | 200-842-0 | 0.010 |
| 77 | 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6 (1H,3H,5H)-trione (TGIC) | 2451-62-9 | 219-514-3 | 0.010 |
| 78 | 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 | 0.010 |
| 79 | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) | 90-94-8 | 202-027-5 | 0.010 |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | 202-959-2 | 0.010 |
| 81 | [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 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 | 0.010 |
| 82 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 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 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|---------------------|--|--|--|-------|
| 83 | α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 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 | 0.010 |
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol with \geq 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 | 0.010 |
| Eighth batch | | | | |
| 85 | Bis(pentabromophenyl) ether (decabromodiphenylether; DecaBDE) | 1163-19-5 | 214-604-9 | 0.010 |
| 86 | Pentacosafuorotridecanoic acid | 72629-94-8 | 276-745-2 | 0.010 |
| 87 | Tricosafuorododecanoic acid | 307-55-1 | 206-203-2 | 0.010 |
| 88 | Henicosafuoroundecanoic acid | 2058-94-8 | 218-165-4 | 0.010 |
| 89 | Heptacosafuorotetradecanoic acid | 376-06-7 | 206-803-4 | 0.010 |
| 90 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues] | - | - | 0.010 |
| 91 | 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | - | - | 0.010 |
| 92 | Diazene-1,2- dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | 204-650-8 | 0.010 |
| 93 | 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 | 247-094-1 243-072-0 256-356-4 260-566-1 | 0.010 |
| 94 | Cyclohexane-1,2-dicarboxylic anhydride | 85-42-7, 13149-00-3, 14166-21-3 | 201-604-9, 236-086-3, 238-009-9 | 0.010 |

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|-----|--|-------------|-----------|-------|
| 95 | Methoxy acetic acid | 625-45-6 | 210-894-6 | 0.010 |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | 284-032-2 | 0.010 |
| 97 | Diisopentylphthalate (DIPP) | 605-50-5 | 210-088-4 | 0.010 |
| 98 | N-pentyl-isopentylphthalate | 776297-69-9 | - | 0.010 |
| 99 | 1,2-diethoxyethane | 629-14-1 | 211-076-1 | 0.010 |
| 100 | N,N-dimethylformamide | 68-12-2 | 200-679-5 | 0.010 |
| 101 | Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | 0.010 |
| 102 | Acetic acid, lead salt, basic** | 51404-69-4 | 257-175-3 | 0.010 |
| 103 | Trilead bis(carbonate) dihydroxide** | 1319-46-6 | 215-290-6 | 0.010 |
| 104 | Lead oxide sulfate** | 12036-76-9 | 234-853-7 | 0.010 |
| 105 | [Phthalato(2-)]dioxotrilead ** | 69011-06-9 | 273-688-5 | 0.010 |
| 106 | Dioxobis(stearato)trilead** | 12578-12-0 | 235-702-8 | 0.010 |
| 107 | Fatty acids, C16-18, lead salts** | 91031-62-8 | 292-966-7 | 0.010 |
| 108 | Lead bis(tetrafluoroborate)** | 13814-96-5 | 237-486-0 | 0.010 |
| 109 | Lead cyanamate** | 20837-86-9 | 244-073-9 | 0.010 |
| 110 | Lead dinitrate** | 10099-74-8 | 233-245-9 | 0.010 |
| 111 | Lead oxide (lead monoxide)** | 1317-36-8 | 215-267-0 | 0.010 |
| 112 | Lead tetroxide (orange lead)** | 1314-41-6 | 215-235-6 | 0.010 |
| 113 | Lead titanium trioxide** | 12060-00-3 | 235-038-9 | 0.010 |
| 114 | Lead Titanium Zirconium Oxide** | 12626-81-2 | 235-727-4 | 0.010 |

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|-----|---|-------------|-----------|-------|
| 115 | Pentalead tetraoxide sulphate** | 12065-90-6 | 235-067-7 | 0.010 |
| 116 | Pyrochlore, antimony lead yellow ** | 8012-00-8 | 232-382-1 | 0.010 |
| 117 | Silicic acid, barium salt, lead-doped** | 68784-75-8 | 272-271-5 | 0.010 |
| 118 | Silicic acid, lead salt** | 11120-22-2 | 234-363-3 | 0.010 |
| 119 | Sulfurous acid, lead salt, dibasic** | 62229-08-7 | 263-467-1 | 0.010 |
| 120 | Tetraethyllead** | 78-00-2 | 201-075-4 | 0.010 |
| 121 | Tetralead trioxide sulphate** | 12202-17-4 | 235-380-9 | 0.010 |
| 122 | Trilead dioxide phosphonate** | 12141-20-7 | 235-252-2 | 0.010 |
| 123 | Furan | 110-00-9 | 203-727-3 | 0.010 |
| 124 | Methyloxirane (Propylene oxide) | 75-56-9 | 200-879-2 | 0.010 |
| 125 | Diethyl sulphate | 64-67-5 | 200-589-6 | 0.010 |
| 126 | Dimethyl sulphate | 77-78-1 | 201-058-1 | 0.010 |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazoli dine | 143860-04-2 | 421-150-7 | 0.010 |
| 128 | Dinoseb | 88-85-7 | 201-861-7 | 0.010 |
| 129 | 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | 0.010 |
| 130 | 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | 0.010 |
| 131 | 4-aminoazobenzene | 60-09-3 | 200-453-6 | 0.010 |
| 132 | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 | 202-453-1 | 0.010 |
| 133 | 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | 204-419-1 | 0.010 |
| 134 | Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | 0.010 |

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Post Code: 523945

Tel: (86-769) 38937518

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E-mail: service@soar-cert.com

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|--------------------|---|-----------|-----------|-------|
| 135 | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)] | 97-56-3 | 202-591-2 | 0.010 |
| 136 | o-toluidine | 95-53-4 | 202-429-0 | 0.010 |
| 137 | N-methylacetamide | 79-16-3 | 201-182-6 | 0.010 |
| 138 | 1-bromopropane (n-propyl bromide) | 106-94-5 | 203-445-0 | 0.010 |
| Ninth batch | | | | |
| 139 | 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] | - | - | 0.010 |
| 140 | Cadmium** | 7440-43-9 | 231-152-8 | 0.010 |
| 141 | Cadmium oxide** | 1306-19-0 | 215-146-2 | 0.010 |
| 142 | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | 0.010 |
| 143 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | 0.010 |
| 144 | Dipentyl phthalate (DPP) | 131-18-0 | 205-017-9 | 0.010 |
| Tenth batch | | | | |
| 145 | Cadmium sulphide** | 1306-23-6 | 215-147-8 | 0.010 |
| 146 | Dihexyl phthalate (DnHP) | 84-75-3 | 201-559-5 | 0.010 |
| 147 | Disodium 3,3'-[[1,1'-biphenyl] - 4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 209-358-4 | 0.010 |
| 148 | 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) | 1937-37-7 | 217-710-3 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|-------------------------|--|--------------------------|------------------------|-------|
| 149 | Imidazolidine-2-thione; 2-imidazoline-2-thiol | 96-45-7 | 202-506-9 | 0.010 |
| 150 | Trixylyl phosphate | 25155-23-1 | 246-677-8 | 0.010 |
| 151 | Lead di(acetate)** | 301-04-2 | 206-104-4 | 0.010 |
| Eleventh batch | | | | |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 271-093-5 | 0.010 |
| 153 | Cadmium chloride** | 10108-64-2 | 233-296-7 | 0.010 |
| 154 | Sodium perborate; perboric acid, sodium salt** | - | 239-172-9 234-390-0 | 0.010 |
| 155 | Sodium peroxometaborate** | 7632-04-4 | 231-556-4 | 0.010 |
| Twelfth batch | | | | |
| 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 247-384-8 | 0.010 |
| 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 223-346-6 | 0.010 |
| 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 | 239-622-4 | 0.010 |
| 159 | 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) | - | - | 0.010 |
| 160 | Cadmium fluoride** | 7790-79-6 | 232-222-0 | 0.010 |
| 161 | Cadmium sulphate** | 10124-36-4 31119-53-6 | 233-331-6 | 0.010 |
| Thirteenth batch | | | | |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|-------------------------|---|--------------------------------------|------------------------|-------|
| 162 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5) | 68515-51-5 68648-93-1 | 271-094-0 272-013-1 | 0.010 |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methy l-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] | - | - | 0.010 |
| Fourteenth batch | | | | |
| 164 | 1,3-propanesultone | 1120-71-4 | 214-317-9 | 0.010 |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 | 223-383-8 | 0.010 |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phen ol (UV-350) | 36437-37-3 | 253-037-1 | 0.010 |
| 167 | Nitrobenzene | 98-95-3 | 202-716-0 | 0.010 |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorona noic acid and its sodium and ammonium salts | 375-95-1, 21049-39-8 4149-60-4 | 206-801-3 | 0.010 |
| Fifteenth batch | | | | |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | 200-028-5 | 0.010 |
| Sixteenth batch | | | | |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A) | 80-05-7 | 201-245-8 | 0.010 |
| 171 | 4-tert-pentylphenol (PTAP) | 80-46-6 | 201-280-9 | 0.010 |
| 172 | 4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof] | - | - | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|--------------------------|--|------------------------------------|-----------------------------|-------|
| 173 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 3108-42-7 335-76-2 3830-45-3 | - 206-400-3 221-470-5 | 0.010 |
| Seventeenth batch | | | | |
| 174 | Perfluorohexane-1-sulphonic acid and its salts | 355-46-4 | 206-587-1 | 0.010 |
| Eighteenth batch | | | | |
| 175 | 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 ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof] | - | - | 0.010 |
| 176 | Benz[a]anthracene | 56-55-3 | 200-280-6 | 0.010 |
| 177 | Cadmium nitrate** | 10325-94-7 | 233-710-6 | 0.010 |
| 178 | Cadmium carbonate** | 513-78-0 | 208-168-9 | 0.010 |
| 179 | Cadmium hydroxide** | 21041-95-2 | 244-168-5 | 0.010 |
| 180 | Chrysene | 218-01-9 | 205-923-4 | 0.010 |
| 181 | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear] | - | - | 0.010 |
| 182 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) | 552-30-7 | 209-008-0 | 0.010 |
| 183 | Dicyclohexyl phthalate (DCHP) | 84-61-7 | 201-545-9 | 0.010 |
| Nineteenth batch | | | | |
| 184 | Benzo[ghi]perylene | 191-24-2 | 205-883-8 | 0.010 |
| 185 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | 208-764-9 | 0.010 |
| 186 | Disodium octaborate** | 12008-41-2 | 234-541-0 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|----------------------------|--|------------|-----------|-------|
| 187 | Dodecamethylcyclohexasiloxane (D6) | 540-97-6 | 208-762-8 | 0.010 |
| 188 | Ethylenediamine | 107-15-3 | 203-468-6 | 0.010 |
| 189 | Lead** | 7439-92-1 | 231-100-4 | 0.010 |
| 190 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | 209-136-7 | 0.010 |
| 191 | Terphenyl hydrogenated | 61788-32-7 | 262-967-7 | 0.010 |
| 192 | 1,7,7-trimethyl-3-(phenylmethylene) bicyclo [2.2.1]heptan-2-one(3-benzylidene camphor) | 15087-24-8 | 239-139-9 | 0.010 |
| Twentieth batch | | | | |
| 193 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 6807-17-6 | 401-720-1 | 0.010 |
| 194 | Benzo[k]fluoranthene | 207-08-9 | 205-916-6 | 0.010 |
| 195 | Fluoranthene | 206-44-0 | 205-912-4 | 0.010 |
| 196 | Phenanthrene | 85-01-8 | 201-581-5 | 0.010 |
| 197 | Pyrene | 129-00-0 | 204-927-3 | 0.010 |
| Twenty-First batch | | | | |
| 198 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) HFPO-DA | - | - | 0.010 |
| 199 | 2-methoxyethyl acetate | 110-49-6 | 203-772-9 | 0.010 |
| 200 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | - | - | 0.010 |
| 201 | p-tert-Butylphenol,4-t-Butylphenol | 98-54-4 | 202-679-0 | 0.010 |
| Twenty-Second batch | | | | |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|----------------------------|--|---|-------------------------------------|-------|
| 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 | 404-360-3 | 0.010 |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | 400-600-6 | 0.010 |
| 204 | Diisohexyl phthalate | 71850-09-4 | 276-090-2 | 0.010 |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts | --- | --- | 0.010 |
| Twenty-Third batch | | | | |
| 206 | 1-Vinylimidazole | 1072-63-5 | 214-012-0 | 0.010 |
| 207 | 2-Methylimidazole | 693-98-1 | 211-765-7 | 0.010 |
| 208 | Butyl 4-hydroxybenzoate | 94-26-8 | 202-318-7 | 0.010 |
| 209 | Dibutylbis(pentane-2,4-dionato -O,O')tin | 22673-19-4 | 245-152-0 | 0.010 |
| Twenty-Fourth batch | | | | |
| 210 | bis(2-(2-methoxyethoxy)ethyl) ether | 143-24-8 | --- | 0.010 |
| 211 | Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | --- | --- | 0.010 |
| Twenty-Fifth batch | | | | |
| 212 | 1,4-dioxane | 123-91-1 | 204-661-8 | 0.010 |
| 213 | 2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/ 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA) | 3296-90-0 36483-57-5 1522-92-5 96-13-9 | 221-967-7 253-057-0 202-480-9 | 0.010 |
| 214 | 3-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers | --- | --- | 0.010 |
| 215 | 4,4'-(1-methylpropylidene) bisphenol (bisphenol B) | 77-40-7 | 201-025-1 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|-----------------------------|---|-------------|-----------|-------|
| 216 | Glutaral | 111-30-8 | 203-856-5 | 0.010 |
| 217 | Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17] | --- | --- | 0.010 |
| 218 | Orthoboric acid, sodium salt** | 13840-56-7 | 237-560-2 | 0.010 |
| 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) | --- | --- | 0.010 |
| Twenty-Sixth batch | | | | |
| 220 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) | --- | --- | 0.010 |
| 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC) | 119-47-1 | 204-327-1 | 0.010 |
| 222 | S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | 401-850-9 | 0.010 |
| 223 | tris(2-methoxyethoxy)vinylsilane | 1067-53-4 | 213-934-0 | 0.010 |
| Twenty-Seventh batch | | | | |
| 224 | N-(hydroxymethyl)acrylamide | 924-42-5 | 213-103-2 | 0.010 |
| Twenty-Eighth batch | | | | |
| 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] | 37853-59-1 | 253-692-3 | 0.010 |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol | 79-94-7 | 201-236-9 | 0.010 |
| 227 | 4,4'-sulphonyldiphenol | 80-09-1 | 201-250-5 | 0.010 |
| 228 | Barium diboron tetraoxide** | 13701-59-2 | 237-222-4 | 0.010 |

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| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|----------------------------|---|-------------|-----------|-------|
| 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof | -- | -- | 0.010 |
| 230 | Isobutyl 4-hydroxybenzoate | 4247-02-3 | 224-208-8 | 0.010 |
| 231 | Melamine | 108-78-1 | 203-615-4 | 0.010 |
| 232 | Perfluoroheptanoic acid and its salts | -- | -- | 0.010 |
| 233 | reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl) morpholine | -- | 473-390-7 | 0.010 |
| Twenty-Ninth batch | | | | |
| 234 | Bis(4-chlorophenyl) sulphone | 80-07-9 | 201-247-9 | 0.010 |
| 235 | Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide | 75980-60-8 | 278-355-8 | 0.010 |
| Thirty- batch | | | | |
| 236 | 2,4,6-tri-tert-butylphenol | 732-26-3 | 211-989-5 | 0.010 |
| 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol(UV-329) | 3147-75-9 | 221-573-5 | 0.010 |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 119344-86-4 | 438-340-0 | 0.010 |
| 239 | Bumetizole(UV-326) | 3896-11-5 | 223-445-4 | 0.010 |
| 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol | -- | 700-960-7 | 0.010 |
| Thirty-First batch | | | | |
| 241 | Bis(a,a-dimethylbenzyl)peroxide | 80-43-3 | 201-279-3 | 0.010 |
| Thirty-Second batch | | | | |
| 242 | Triphenyl Phosphate | 115-86-6 | 204-112-2 | 0.010 |

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2. According to customer requirements, screening tests were conducted on 13 potential intention SVHC substances submitted by EU member states to the European Chemical Administration (ECHA).

| Chemical Substance | Unit | Result |
|--|--------|--------|
| | | No.1 |
| All Tested 13 Potential intention SVHCs in Chemical List | %(w/w) | N.D. |

| Chemical Substance | Unit | Result |
|--------------------|--------|--------|
| | | No.2 |
| Barium chromate | %(w/w) | N.D. |

13 Potential intention SVHCs Chemical List

| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|---------------------------|---|--------------|-----------|-------|
| Undetermined batch | | | | |
| 1 | Hexamethyldisiloxane(HMDS) | 107-46-0 | 203-492-7 | 0.010 |
| 2 | Dodecamethylpentasiloxane | 141-63-9 | 205-492-2 | 0.010 |
| 3 | Decamethyltetrasiloxane | 141-62-8 | 205-491-7 | 0.010 |
| 4 | 1,1,1,3,5,5,5- Heptamethyltrisiloxane | 1873-88-7 | 217-496-1 | 0.010 |
| 5 | 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane | 17928-28-8 | 241-867-7 | 0.010 |
| 6 | Octamethyltrisiloxane | 107-51-7 | 203-497-4 | 0.010 |
| 7 | Perfluamine | 338-83-0 | 206-420-2 | 0.010 |
| 8 | O,O,O-triphenyl phosphorothioate | 597-82-0 | 209-909-9 | 0.010 |
| 9 | Tris(4-nonylphenyl, branched) phosphite | -- | 701-028-2 | 0.010 |
| 10 | 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid | 2156592-54-8 | 701-118-1 | 0.010 |
| 11 | reaction mass of: thiophosphate and tertiarybutylated phenyl derivatives | 192268-65-8 | 421-820-9 | 0.010 |
| 12 | Barium chromate | 10294-40-3 | 233-660-5 | 0.010 |

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Lab name: Soar Testing Certification (GuangDong) Co., Ltd.
Post Code: 523945

Tel: (86-769) 38937518

Address: Room 1093, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
E-mail: service@soar-cert.com
Website: http://www.soartestlab.com

| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|---------------------------|---|---------|-----------|-------|
| Undetermined batch | | | | |
| 13 | tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[[4-chloro-6-({2-[(4-fluoro-6-[[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl]amino) propyl]amino)-1,3,5-triazine-2-yl]amino)-5-sulfonato-1-naphthyl]diazanyl]-5-methoxyphenyl]diazanyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51) | -- | 466-490-7 | 0.010 |

3. According to customer requirements, screen and test 1 Assessing SVHC substance submitted by EU member states to the European Chemical Administration (ECHA).

| Chemical Substance | Unit | Result |
|--|--------|--------|
| | | No.1 |
| All Tested 1 Assessing SVHC in Chemical List | %(w/w) | N.D. |

1 Assessing SVHC Chemical List

| No. | Chemical Substance Name(s) | CAS No. | EC No. | RL% |
|---------------------------|----------------------------|----------|-----------|-------|
| Undetermined batch | | | | |
| 1 | Resorcinol | 108-46-3 | 203-585-2 | 0.010 |

Note:

- SVHC = Substances of Very High Concern
- % = percentage by weight
- N.D. = Not Detected (<Report Limit)
- RL = Report Limit
- ** According to the 5.2.1 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
- Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article,

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professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the fourth version of ECHA "Guidance on requirements for substances in articles", 2017.

7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify the European Chemicals Agency(ECHA), In accordance with Article 59(1) of the Regulation if:
 - the substance is present in those articles in quantities totaling over one ton per producer or importer per year;
 - the substance is present in those articles above a concentration of 0.1% weight by weight(w/w).
9. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

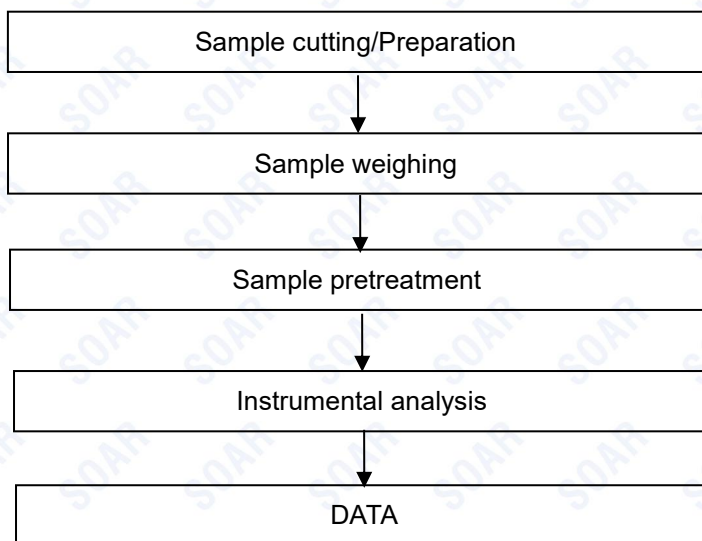
Remark:

1. As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
2. As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

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REACH Test Flow Chart



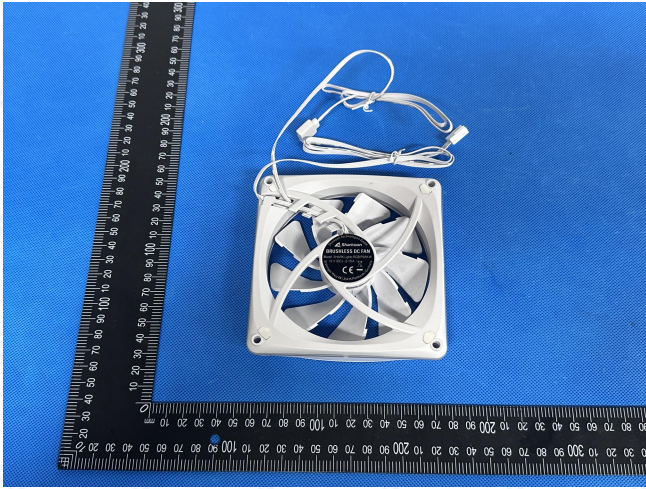
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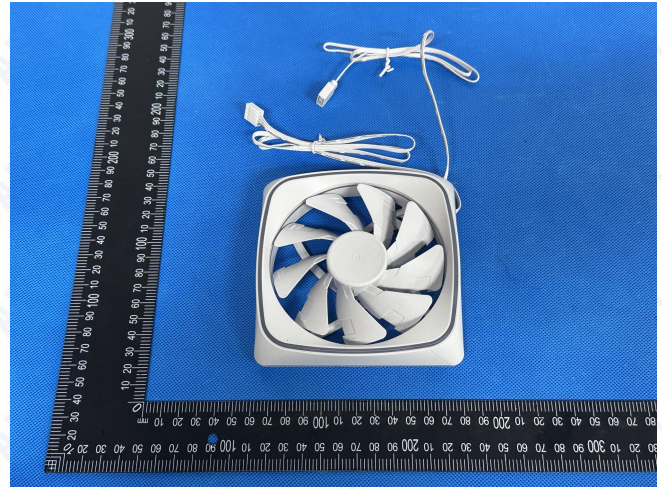
Tel: (86-769) 38937518

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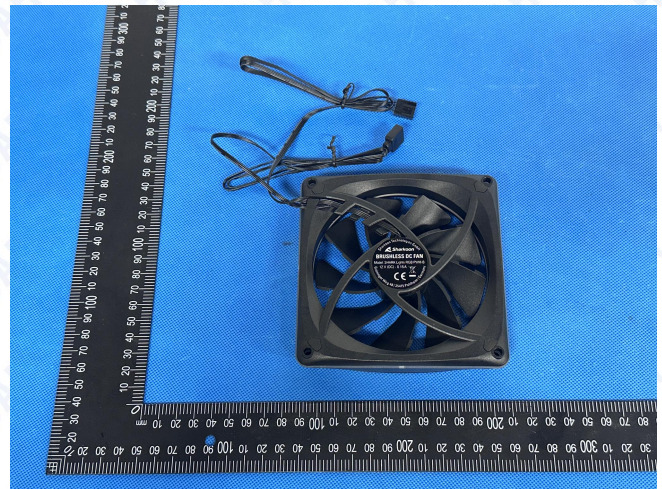
Photo of the Sample:



Test sample



Test sample



The photo is for use with SOAR original report only.

*** End of Report ***

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