

Test Report

No.: 68.431.25.2182.01C

Date: 2025-06-13



Applicant: Nanjing Microne Electronics Inc.
Address: 5F,1ST Building No.699-8 Xuanwu Avenue, Xuanwu District ,Nanjing
Product Name: IC
Product Type / End use: SOT,SOP,ESOP,EQSOP,DIP,TO,DFN,TSSOP,EMSOP,MSOP,SSOP,QFN,LQFP,FBP,CSP,CPC,TSOT, eTSSOP 系列等
Receipt Date of Sample: 2025-05-15
Date of Testing: 2025-05-19 ~ 2025-05-29
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

| Test Item | Conclusion |
|---|------------|
| 1. Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH) | <0.1%(W/W) |
| 2. Client's Requirements - 9 Substances of Public Consultation and intention List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH) | Not Tested |

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. The test item and sample were specified by the client.

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Lab 2 - Physical & mechanical
testing

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Testing Center

Prepared by:

Authorized by:



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Project Manager

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Project Manager

Note:

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- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.

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Description of Tested Subject:

| Sample | Description | Photo |
|--------|--------------------------|-------|
| A | Whole product | |
| 001 | Black material (SOT23-3) | |

| T. No | Sample | Description |
|-------|--------|--------------------------|
| T1 | 001 | Black material (SOT23-3) |

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Test Result(s):

1. Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)

Test method: Screening test. For organic substance(s) analysis, extracted by organic solvent, determination by LC-MS/MS, GC-MS, HPLC-DAD.

For heavy metal(s) analysis, digested by acid, determination by ICP-OES, AAS and UV-Vis.

| Item No. | Tested Items | CAS No. | MDL [%] | Concentration [%] |
|----------|-----------------------------------|---------|---------|-------------------|
| | | | | 001 |
| - | All tested SVHC in candidate list | - | 0.010 | ND |

Remark:

1. The table above only shows detected SVHC, and SVHC that below MDL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. ** The substances are tested in terms of its respective elements and the test result is based on the calculation of selected elements/marker(s) and to the worst-case scenario. Calculated concentration of boric and arsenic compounds are based on the water extractive boron and arsenic. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
3. ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.
4. # only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
5. TGIC is a mixture and also contains β -TGIC. According to ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.
6. The analysis of 247 SVHC list are done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA). Refer to <https://echa.europa.eu/et/candidate-list-table> for details.
7. In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:
 - (a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
8. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

Appendix

| Item No. | Tested Items | CAS No. | Classification |
|----------|---|------------|--|
| 1 | Benzyl butyl phthalate (BBP) | 85-68-7 | Toxic for reproduction (article 57 c) |
| 2 | Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7 | Toxic for reproduction (article 57 c) |
| 3 | Dibutyl phthalate (DBP) | 84-74-2 | Toxic for reproduction (article 57 c) |
| 4 | 4,4'-Diaminodiphenylmethane (MDA) | 101-77-9 | Carcinogenic (article 57 a) |
| 5 | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene) | 81-15-2 | vPvB (article 57 e) |
| 6 | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | PBT and vPvB (articles 57 d and 57 e) |
| 7 | Cobalt Dichloride** | 7646-79-9 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |

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| | | | |
|----|---|---------------------------|---|
| 8 | Hexabromocyclododecane (HBCDD) | 25637-99-4/ 3194-55-6 | PBT (article 57 d) |
| 9 | Sodium dichromate, dihydrate** | 7789-12-0/ 10588-01-9 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 10 | Anthracene | 120-12-7 | PBT (article 57 d) |
| 11 | Lead hydrogen arsenate** | 7784-40-9 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 12 | Bis(tributyltin)oxide (TBTO)** | 56-35-9 | PBT (article 57 d) |
| 13 | Diarsenic pentaoxide** | 1303-28-2 | Carcinogenic (article 57 a) |
| 14 | Diarsenic trioxide** | 1327-53-3 | Carcinogenic (article 57 a) |
| 15 | Triethyl arsenate** | 15606-95-8 | Carcinogenic (article 57 a) |
| 16 | 2,4-Dinitrotoluene | 121-14-2 | Carcinogenic (article 57 a) |
| 17 | Anthracene oil ^{##} | 90640-80-5 | Carcinogenic, PBT and vPvB (articles 57 a, 57 d and 57 e) |
| 18 | Anthracene oil, anthracene paste, distn, lights ^{##} | 91995-17-4 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 19 | Anthracene oil, anthracene paste, anthracene fraction ^{##} | 91995-15-2 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 20 | Anthracene oil, anthracene-low ^{##} | 90640-82-7 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 21 | Anthracene oil, anthracene paste ^{##} | 90640-81-6 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57d and 57 e) |
| 22 | Lead chromate** | 7758-97-6 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 23 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)** | 12656-85-8 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 24 | Lead sulfochromate yellow (C.I. Pigment Yellow 34)** | 1344-37-2 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 25 | Diisobutyl phthalate (DIBP) | 84-69-5 | Toxic for reproduction (article 57c) |
| 26 | Tris(2-chloroethyl)phosphate | 115-96-8 | Toxic for reproduction (article 57c) |
| 27 | Pitch, coal tar, high temp. ^{##} | 65996-93-2 | Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e) |
| 28 | Acrylamide | 79-06-1 | Carcinogenic and mutagenic (articles 57 a and 57 b) |
| 29 | Trichloroethylene | 79-01-6 | Carcinogenic (article 57 a) |
| 30 | Boric acid** | 10043-35-3/ 11113-50-1 | Toxic for reproduction (article 57 c) |
| 31 | Disodium tetraborate, anhydrous** | 1330-43-4/ 12179-04-3 | Toxic for reproduction (article 57 c) |
| 32 | Tetraboron disodium heptaoxide, hydrate(calculate as decahydrate)** | 12267-73-1 | Toxic for reproduction (article 57 c) |

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| | | | |
|----|--|--------------------------|---|
| 33 | Sodium chromate** | 7775-11-3 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 34 | Potassium chromate** | 7789-00-6 | Carcinogenic and mutagenic (articles 57 a and 57 b) |
| 35 | Ammonium dichromate** | 7789-09-5 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 36 | Potassium dichromate** | 7778-50-9 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 37 | Cobalt(II) sulphate** | 10124-43-3 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 38 | Cobalt(II) dinitrate** | 10141-05-6 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 39 | Cobalt(II) carbonate** | 513-79-1 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 40 | Cobalt(II) diacetate ** | 71-48-7 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 41 | 2-Methoxyethanol | 109-86-4 | Toxic for reproduction (article 57c) |
| 42 | 2-Ethoxyethanol | 110-80-5 | Toxic for reproduction (article 57c) |
| 43 | Chromium trioxide** | 1333-82-0 | Carcinogenic and mutagenic (articles 57 a and 57 b) |
| 44 | Acids generated from chromium trioxide and their oligomers: a. Chromic acid** b. Dichromic acid ** c. Oligomers of chromic acid and dichromic acid ** | 7738-94-5/ 13530-68-2 | Carcinogenic (article 57a) |
| 45 | 2-Ethoxyethyl acetate (2-EEA) | 111-15-9 | Toxic for reproduction (article 57c) |
| 46 | Strontium chromate** | 7789-06-2 | Carcinogenic (article 57a) |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | Toxic for reproduction (article 57c) |
| 48 | Hydrazine | 7803-57-8 302-01-2 | Carcinogenic (article 57a) |
| 49 | 1-Methyl-2-pyrrolidone | 872-50-4 | Toxic for reproduction (article 57c) |
| 50 | 1,2,3-Trichloropropane | 96-18-4 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | Toxic for reproduction (article 57c) |
| 52 | 1, 2-Dichloroethane | 107-06-2 | Carcinogenic (article 57 a) |
| 53 | 2,2'-Dichloro-4,4'-methylenedianiline (MOCA) | 101-14-4 | Carcinogenic (article 57 a) |
| 54 | 2-Methoxyaniline, o-Anisidine | 90-04-0 | Carcinogenic (article 57 a) |
| 55 | 4-tert-Octylphenol | 140-66-9 | Equivalent level of concern having probable serious effects to the environment (article 57 f) |

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| | | | |
|----|---|------------|--|
| 56 | Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight ** | - | Carcinogenic (article 57a) |
| 57 | Arsenic acid ** | 7778-39-4 | Carcinogenic (article 57 a) |
| 58 | Bis(2-methoxyethyl) ether | 111-96-6 | Toxic for reproduction (article 57 c) |
| 59 | Bis(2-methoxyethyl) phthalate | 117-82-8 | Toxic for reproduction (article 57 c) |
| 60 | Calcium arsenate** | 7778-44-1 | Carcinogenic (article 57 a) |
| 61 | Dichromium tris(chromate) ** | 24613-89-6 | Carcinogenic (article 57 a) |
| 62 | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | Carcinogenic (article 57 a) |
| 63 | Lead diazide** | 13424-46-9 | Toxic for reproduction (article 57 c) |
| 64 | Lead dipicrate** | 6477-64-1 | Toxic for reproduction (article 57 c) |
| 65 | Lead styphnate ** | 15245-44-0 | Toxic for reproduction (article 57 c) |
| 66 | N,N-dimethylacetamide (DMAC) | 127-19-5 | Toxic for reproduction (article 57 c) |
| 67 | Pentazinc chromate octahydroxide** | 49663-84-5 | Carcinogenic (article 57 a) |
| 68 | Phenolphthalein | 77-09-8 | Carcinogenic (article 57 a) |
| 69 | Potassium hydroxyoctaoxodizincatedichromate** | 11103-86-9 | Carcinogenic (article 57 a) |
| 70 | Trilead diarsenate** | 3687-31-8 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 71 | Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 , and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight ** | - | Carcinogenic (article 57 a) |
| 72 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 | Toxic for reproduction (Article 57 c) |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | Toxic for reproduction (Article 57 c) |
| 74 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol # | 561-41-1 | Carcinogenic (Article 57a) |
| 75 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 90-94-8 | Carcinogenic (Article 57 a) |
| 76 | 4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)# | 548-62-9 | Carcinogenic (Article 57a) |

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| | | | |
|-----|---|--|---|
| 77 | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) # | 2580-56-5 | Carcinogenic (Article 57a) |
| 78 | Diboron trioxide | 1303-86-2 | Toxic for reproduction (Article 57 c) |
| 79 | Lead(II) bis(methanesulfonate)** | 17570-76-2 | Toxic for reproduction (Article 57 c) |
| 80 | Formamide | 75-12-7 | Toxic for reproduction (Article 57 c) |
| 81 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | Carcinogenic (Article 57a) |
| 82 | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 | Mutagenic (Article 57b) |
| 83 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)# | 6786-83-0 | Carcinogenic (Article 57a) |
| 84 | β-TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl] 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 59653-74-6 | Mutagenic (Article 57b) |
| 85 | Bis(pentabromophenyl) ether (DecaBDE) | 1163-19-5 | PBT (Article 57 d); vPvB (Article 57 e) |
| 86 | Pentacosafuorotridecanoic acid | 72629-94-8 | PBT (Article 57 d); vPvB (Article 57 e) |
| 87 | Tricosafuorododecanoic acid | 307-55-1 | vPvB (Article 57 e) |
| 88 | Henicosafuoroundecanoic acid | 2058-94-8 | vPvB (Article 57 e) |
| 89 | Heptacosafuorotetradecanoic acid | 376-06-7 | vPvB (Article 57 e) |
| 90 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologue | - | Equivalent level of concern – probable serious effects on the environment (Article 57 f) |
| 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 | - | Equivalent level of concern – probable serious effects on the environment (Article 57 f) |
| 92 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) | 123-77-3 | Equivalent level of concern – probable serious effects on human health (Article 57 f) |
| 93 | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) | 85-42-7 | Equivalent level of concern – probable serious effects on human health (Article 57 f) |
| 94 | 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 | Equivalent level of concern – probable serious effects on human health (Article 57 f) |
| 95 | Methoxy acetic acid | 625-45-6 | Toxic for reproduction (Article 57 c); equivalent level of concern - probable serious effects on human health and the environment (Article 57 f) |
| 96 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 | Toxic for reproduction (Article 57 c) |
| 97 | Diisopentylphthalate (DIPP) | 605-50-5 | Toxic for reproduction (Article 57 c) |
| 98 | N-pentyl-isopentylphthalate | - | Toxic for reproduction (Article 57 c) |
| 99 | 1,2-Diethoxyethane | 629-14-1 | Toxic for reproduction (Article 57 c) |
| 100 | N,N-dimethylformamide | 68-12-2 | Toxic for reproduction (Article 57 c) |
| 101 | Dibutyltin dichloride (DBT) | 683-18-1 | Toxic for reproduction (Article 57 c) |

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| 102 | Acetic acid, lead salt, basic** | 51404-69-4 | Toxic for reproduction (Article 57 c) |
| 103 | Basic lead carbonate (trilead bis(carbonate)dihydroxide)** | 1319-46-6 | Toxic for reproduction (Article 57 c) |
| 104 | Lead oxide sulfate (basic lead sulfate)** | 12036-76-9 | Toxic for reproduction (Article 57 c) |
| 105 | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)** | 69011-06-9 | Toxic for reproduction (Article 57 c) |
| 106 | Dioxobis(stearato)trilead** | 12578-12-0 | Toxic for reproduction (Article 57 c) |
| 107 | Fatty acids, C16-18, lead salts** | 91031-62-8 | Toxic for reproduction (Article 57 c) |
| 108 | Lead bis(tetrafluoroborate)** | 13814-96-5 | Toxic for reproduction (Article 57 c) |
| 109 | Lead cyanamide** | 20837-86-9 | Toxic for reproduction (Article 57 c) |
| 110 | Lead dinitrate** | 10099-74-8 | Toxic for reproduction (Article 57 c) |
| 111 | Lead oxide (lead monoxide)** | 1317-36-8 | Toxic for reproduction (Article 57 c) |
| 112 | Lead tetroxide (orange lead)** | 1314-41-6 | Toxic for reproduction (Article 57 c) |
| 113 | Lead titanium trioxide** | 12060-00-3 | Toxic for reproduction (Article 57 c) |
| 114 | Lead Titanium Zirconium Oxide** | 12626-81-2 | Toxic for reproduction (Article 57 c) |
| 115 | Pentalead tetraoxide sulphate** | 12065-90-6 | Toxic for reproduction (Article 57 c) |
| 116 | Pyrochlore, antimony lead yellow** | 8012-00-8 | Toxic for reproduction (Article 57 c) |
| 117 | Silicic acid, barium salt, lead-doped** | 68784-75-8 | Toxic for reproduction (Article 57 c) |
| 118 | Silicic acid, lead salt** | 11120-22-2 | Toxic for reproduction (Article 57 c) |
| 119 | Sulfurous acid, lead salt, dibasic** | 62229-08-7 | Toxic for reproduction (Article 57 c) |
| 120 | Tetraethyllead** | 78-00-2 | Toxic for reproduction (Article 57 c) |
| 121 | Tetralead trioxide sulphate** | 12202-17-4 | Toxic for reproduction (Article 57 c) |
| 122 | Trilead dioxide phosphonate** | 12141-20-7 | Toxic for reproduction (Article 57 c) |
| 123 | Furan | 110-00-9 | Carcinogenic (Article 57a) |
| 124 | Propylene oxide; 1,2-epoxypropane; methyloxirane | 75-56-9 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 125 | Diethyl sulphate | 64-67-5 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 126 | Dimethyl sulphate | 77-78-1 | Carcinogenic (Article 57 a) |
| 127 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | Toxic for reproduction (Article 57 c) |
| 128 | Dinoseb | 88-85-7 | Toxic for reproduction (Article 57 c) |
| 129 | 4,4'-methylenedi-o-toluidine | 838-88-0 | Carcinogenic (Article 57 a) |
| 130 | 4,4'-oxydianiline and its salts | 101-80-4 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 131 | 4-Aminoazobenzene | 60-09-3 | Carcinogenic (Article 57 a) |
| 132 | 4-methyl-m-phenylenediamine | 95-80-7 | Carcinogenic (Article 57 a) |
| 133 | 6-methoxy-m-toluidine | 120-71-8 | Carcinogenic (Article 57 a) |
| 134 | Biphenyl-4-ylamine | 92-67-1 | Carcinogenic (Article 57 a) |
| 135 | o-aminoazotoluene | 97-56-3 | Carcinogenic (Article 57 a) |
| 136 | o-Toluidine | 95-53-4 | Carcinogenic (Article 57 a) |
| 137 | N-methylacetamide | 79-16-3 | Toxic for reproduction (Article 57 c) |
| 138 | 1-bromopropane; n-propyl bromide | 106-94-5 | Toxic for reproduction (Article 57 c) |
| 139 | Cadmium** | 7440-43-9 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 140 | Cadmium oxide** | 1306-19-0 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 141 | Dipentyl phthalate (DPP) | 131-18-0 | Toxic for reproduction (Article 57 c) |

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Test Report

No.: 68.431.25.2182.01C

Date: 2025-06-13



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| 142 | 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] | - | Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) (Article 57 f) |
| 143 | Ammonium pentadecafluorooctanoate | 3825-26-1 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) |
| 144 | Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) |
| 145 | Cadmium sulphide** | 1306-23-6 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 146 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I.Direct Red 28) | 573-58-0 | Carcinogenic (Article 57a) |
| 147 | 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 | Carcinogenic (Article 57a) |
| 148 | Dihexyl phthalate | 84-75-3 | Toxic for reproduction (Article 57 c) |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol) | 96-45-7 | Toxic for reproduction (Article 57 c) |
| 150 | Lead di(acetate) ** | 301-04-2 | Toxic for reproduction (Article 57 c) |
| 151 | Trixylyl phosphate | 25155-23-1 | Toxic for reproduction (Article 57 c) |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | Toxic for reproduction (Article 57 c) |
| 153 | Cadmium chloride** | 10108-64-2 | Carcinogenic (Article 57a); Mutagenic (Article 57(b)); Toxic for Reproduction (Article 57(c); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 154 | Sodium perborate; perboric acid, sodium salt | - | Toxic for reproduction (Article 57 c) |
| 155 | Sodium peroxometaborate | 7632-04-4 | Toxic for reproduction (Article 57 c) |
| 156 | Cadmium fluoride** | 7790-79-6 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 157 | Cadmium sulphate** | 10124-36-4; 31119-53-6 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f) |
| 158 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | PBT (Article 57 d); vPvB (Article 57 e) |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | PBT (Article 57 d); vPvB (Article 57 e) |
| 160 | 2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 | Toxic for reproduction (Article 57 c) |

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Test Report

No.: 68.431.25.2182.01C

Date: 2025-06-13



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| 161 | 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) | - | Toxic for reproduction (Article 57 c) |
| 162 | 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) | Toxic for reproduction (Article 57 c) |
| 163 | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] | - | vPvB (Article 57 e) |
| 164 | 1,3-propanesultone | 1120-71-4 | Carcinogenic (Article 57 a) |
| 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) | 3864-99-1 | vPvB (Article 57 e) |
| 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 36437-37-3 | vPvB (Article 57 e) |
| 167 | Nitrobenzene | 98-95-3 | Toxic for reproduction (Article 57 c) |
| 168 | Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts | 375-95-1; 21049-39-8; 4149-60-4 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) |
| 169 | Benzo[a]pyrene | 50-32-8 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) |
| 170 | 4,4'-isopropylidenediphenol (Bisphenol A, BPA) | 80-05-7 | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health) |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 335-76-2, 3830-45-3, 3108-42-7 | Toxic for reproduction (Article 57 c); PBT (Article 57 d) |
| 172 | p-(1,1-dimethylpropyl)phenol (pentyphenol, PTAP) | 80-46-6 | Equivalent level of concern having probable serious effects to the environment (Article 57 f) |
| 173 | 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] | - | Equivalent level of concern having probable serious effects to the environment (Article 57 f) |
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | 355-46-4 | vPvB (Article 57e) |
| 175 | Benz[a]anthracene | 56-55-3 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |

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Test Report

No.: 68.431.25.2182.01C

Date: 2025-06-13



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| 176 | Cadmium carbonate** | 513-78-0 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 177 | Cadmium hydroxide** | 21041-95-2 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 178 | Cadmium nitrate** | 10325-94-7 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 179 | Chrysene | 218-01-9 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e) |
| 180 | 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] | - | vPvB (Article 57e) |
| 181 | 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 57(f) - environment) |
| 182 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) | 552-30-7 | Respiratory sensitising properties (Article 57(f)) – human health |
| 183 | Dicyclohexyl phthalate (DCHP) | 84-61-7 | Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health) |
| 184 | Octamethylcyclotetrasiloxane (D4) | 556-67-2 | PBT (Article 57d) vPvB (Article 57e) |
| 185 | Decamethylcyclopentasiloxane (D5) | 541-02-6 | PBT (Article 57d) vPvB (Article 57e) |
| 186 | Dodecamethylcyclohexasiloxane (D6) | 540-97-6 | PBT (Article 57d) vPvB (Article 57e) |
| 187 | Lead | 7439-92-1 | Toxic for reproduction (Article 57c) |
| 188 | Disodium octaborate** | 12008-41-2 | Toxic for reproduction (Article 57c) |
| 189 | Benzo[ghi]perylene | 191-24-2 | PBT (Article 57d) vPvB (Article 57e) |
| 190 | Terphenyl hydrogenated | 61788-32-7 | vPvB (Article 57e) |
| 191 | Ethylenediamine (EDA) | 107-15-3 | Respiratory sensitising properties (Article 57(f) - human health) |
| 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane | 6807-17-6 | Toxic for reproduction (Article 57c) |
| 193 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) | 15087-24-8 | Endocrine disrupting properties (Article 57(f) - environment) |
| 194 | Benzo[k]fluoranthene | 207-08-9 | Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e) |

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No.: 68.431.25.2182.01C

Date: 2025-06-13



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| 195 | Fluoranthene | 206-44-0 | PBT (Article 57d); vPvB (Article 57e) |
| 196 | Phenanthrene | 85-01-8 | vPvB (Article 57e) |
| 197 | Pyrene | 129-00-0 | PBT (Article 57d); vPvB (Article 57e) |
| 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) | - | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health) |
| 199 | 2-methoxyethyl acetate | 110-49-6 | Toxic for reproduction (Article 57 (c)) |
| 200 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) | - | Endocrine disrupting properties (Article 57(f) – environment) |
| 201 | 4-tert-butylphenol (PTBP) | 98-54-4 | Endocrine disrupting properties (Article 57(f) – environment) |
| 202 | Diisohexyl phthalate | 71850-09-4 | Toxic for reproduction (Article 57c) |
| 203 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 | Toxic for reproduction (Article 57c) |
| 204 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | Toxic for reproduction (Article 57c) |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts | - | Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f) |
| 206 | 1-vinylimidazole | 1072-63-5 | Toxic for reproduction (Article 57c) |
| 207 | 2-methylimidazole | 693-98-1 | Toxic for reproduction (Article 57c) |
| 208 | Butyl 4-hydroxybenzoate | 94-26-8 | Endocrine disrupting properties (Article 57(f) – human health) |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | Toxic for reproduction (Article 57c) |
| 210 | Bis(2-(2-methoxyethoxy)ethyl) ether | 143-24-8 | Toxic for reproduction (Article 57c) |
| 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 | - | Toxic for reproduction (Article 57c) |
| 212 | 1,4-dioxane | 123-91-1 | Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f) |
| 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 | Carcinogenic (Article 57a) |

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| 214 | 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers | - | Toxic for reproduction (Article 57c) |
| 215 | 4,4'-(1-methylpropylidene) bisphenol; (bisphenol B) | 77-40-7 | Endocrine disrupting properties (Article 57(f) - environment AND human health) |
| 216 | Glutaral | 111-30-8 | Respiratory sensitising properties (Article 57(f) - human health) |
| 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] | - | PBT (Article 57d) vPvB (Article 57e) |
| 218 | Orthoboric acid, sodium salt | 13840-56-7 | Toxic for reproduction (Article 57c) |
| 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) | - | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) – human health) Endocrine disrupting properties (Article 57(f) – environment) |
| 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) | - | Endocrine disrupting properties (Article 57(f) - human health) |
| 221 | Endocrine disrupting properties (Article 57(f) - human health) | 119-47-1 | Toxic for reproduction (Article 57c) |
| 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 | PBT (Article 57 d) |
| 223 | Tris(2-methoxyethoxy)vinylsilane | 1067-53-4 | Toxic for reproduction (Article 57c) |
| 224 | N-(hydroxymethyl)acrylamide | 924-42-5 | Carcinogenic (Article 57a) Mutagenic (Article 57b) |
| 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (BTBPE) | 37853-59-1 | vPvB (Article 57e) |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA) | 79-94-7 | Carcinogenic (Article 57a) |
| 227 | 4,4'-sulphonyldiphenol (BPS) | 80-09-1 | Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) – environment); Endocrine disrupting properties (Article 57(f) – human health) |
| 228 | Barium diboron tetraoxide | 13701-59-2 | Toxic for reproduction (Article 57c) |
| 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH) | - | vPvB (Article 57e) |
| 230 | Isobutyl 4-hydroxybenzoate | 4247-02-3 | Endocrine disrupting properties (Article 57(f) – human health) |
| 231 | Melamine | 108-78-1 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) |

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| 232 | Perfluoroheptanoic acid (PFHpA) and its salts | - | Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) |
| 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 | - | vPvB (Article 57e) |
| 234 | Bis(4-chlorophenyl) sulphone (BCPS) | 80-07-9 | vPvB (Article 57e) |
| 235 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | Toxic for reproduction (Article 57c) |
| 236 | 2,4,6-tri-tert-butylphenol (2,4,6-TTBP) | 732-26-3 | Toxic for reproduction (Article 57c); PBT (Article 57d); |
| 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol | 3147-75-9 | vPvB (Article 57e) |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 119344-86-4 | Toxic for reproduction (Article 57c) |
| 239 | Bumetizole (UV-326) | 3896-11-5 | vPvB (Article 57e) |
| 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol (OAPP) | - | vPvB (Article 57e) |
| 241 | Bis(α,α-dimethylbenzyl) peroxide | 80-43-3 | Toxic for reproduction (Article 57c) |
| 242 | Triphenyl phosphate | 115-86-6 | Endocrine disrupting properties (Article 57(f) - environment) |
| 243 | 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid | 2156592-54-8 | Toxic for reproduction (Article 57c) |
| 244 | O,O,O-triphenyl phosphorothioate | 597-82-0 | PBT (Article 57d) |
| 245 | Octamethyltrisiloxane | 107-51-7 | vPvB (Article 57e) |
| 246 | Perfluamine | 338-83-0 | vPvB (Article 57e) |
| 247 | reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives | 192268-65-8 | PBT (Article 57d) |

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Lab 1 - Chemical testing and part of electrical testing
Lab 2 - Physical & mechanical testing

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2. Client's Requirements - 9 Substances of Public Consultation and intention List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)

| Item No. | Substance name | CAS No. |
|----------|--|------------|
| 1 | 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane (M3T) | 17928-28-8 |
| 2 | Decamethyltetrasiloxane (L4) | 141-62-8 |
| 3 | 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)diazenyl]-5-methoxyphenyl)diazenyl]-1,3,6-naphthalenetrisulfonate (Reactive Brown 51) | - |
| 4 | N-Hexane | 110-54-3 |
| 5 | Dodecamethylpentasiloxane | 141-63-9 |
| 6 | 4,4'-methylenediphenol | 620-92-8 |
| 7 | 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF) and its salts | - |
| 8 | 1,1'-(ethane-1,2-diyl)bis[pentabromobenzene] (DBDPE) | 84852-53-9 |
| 9 | Resorcinol | 108-46-3 |

-End of Test Report-

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