

# TEST REPORT

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Applicant : ANDUM PROTECTIVE EQUIPMENT TECHNOLOGY (CHANGZHOU) CO., LTD.  
Address : NO. 216, QIANJIE, HENGSHANQIAO TOWN, CHANGZHOU ECONOMIC ZONE, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA.

Below information submitted by the applicant:

Product Name : Filtering half mask, Slate Blue  
Model : AD-1001  
Model may cover : /  
Reference info. : /  
Manufacturer info. : /  
Supplier info. : /  
Buyer info. : /  
Country of Destination : /  
Country of Origin : China

Sample Received : 11.23, 2020  
Test Period : 11.23, 2020 – 11.27, 2020  
Test Requirement : Refer to next pages  
Test Method : Refer to next pages  
Test Result : Refer to next pages  
Test Conclusion : Refer to next pages

Signed for and on behalf of  
Jordan Wang, General Manager  
BU Chemical Compliance  
TUV THURINGEN (SHANGHAI) CO., LTD.  
Location: Shanghai

## TÜV Thüringen CHINA

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## TEST RESULTS

As requested by the client, test items as below:

### Test Items

### Verdict

- According to European Commission Regulation 1907/2006 (concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC), to test the SVHC content which have been listed in ECHA's SVHC candidate list till Jun.25, 2020 <http://echa.europa.eu/web/guest/candidate-list-table>  
- REACH SVHC content in candidate list till 2020.06.25, less than 0.1%

PASS

## SAMPLE DESCRIPTION

Sample description : 1# Slate Blue mask

## TEST RESULTS

### 1. REACH SVHC in candidate lists

**Test Method:** In-house method with reference to EPA: 8270D, 3052, 6010C, 3550C, 8321B, EN14362, DIN EN ISO 17353, IEC 62321, AfPS GS 2019:01 and EN 14582 etc

Abbr.: MDL, means Method Detection Limit; N.D. = Not Detected, means the content is less than MDL.

| Seq.<br>Test Item(s)               | Units | MDL | Results |
|------------------------------------|-------|-----|---------|
|                                    |       |     | 1#      |
| All tested SVHC in candidate lists | ---   | --- | N.D.    |

Test Parameter& MDL for SVHC listed in candidate lists

| Seq. | Test Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EC. No.   | CAS No.    | MDL (%) |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|
| 1    | 2,4-Dinitrotoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 204-450-0 | 121-14-2   | 0.01    |
| 2    | 2-Ethoxyethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 203-804-1 | 110-80-5   | 0.005   |
| 3    | 2-Methoxyethanol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 203-713-7 | 109-86-4   | 0.005   |
| 4    | 4,4'- Diaminodiphenylmethane(MDA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 202-974-4 | 101-77-9   | 0.005   |
| 5    | 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 201-329-4 | 81-15-2    | 0.005   |
| 6    | Acrylamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 201-173-7 | 79-06-1    | 0.01    |
| 7    | Alkanes, C <sub>10-13</sub> , chloro (Short Chain Chlorinated Paraffins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 287-476-5 | 85535-84-8 | 0.005   |
| 8    | Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions:<br>a) Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> are present within the following concentration ranges:<br>Al <sub>2</sub> O <sub>3</sub> : 43.5 – 47 % w/w, and SiO <sub>2</sub> : 49.5 – 53.5 % w/w, or Al <sub>2</sub> O <sub>3</sub> : 45.5 – 50.5 % w/w, and SiO <sub>2</sub> : 48.5 – 54 % w/w,<br>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)*** | ---       | ---        | 0.01    |

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| Seq. | Test Item(s)                                                                                                                                                   | EC. No.                       | CAS No.                                                                    | MDL (%) |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------|---------|
| 9    | Ammonium dichromate*                                                                                                                                           | 232-143-1                     | 7789-09-5                                                                  | 0.01    |
| 10   | Anthracene                                                                                                                                                     | 204-371-1                     | 120-12-7                                                                   | 0.005   |
| 11   | Anthracene oil                                                                                                                                                 | 292-602-7                     | 90640-80-5                                                                 | 0.01    |
| 12   | Anthracene oil, anthracene paste                                                                                                                               | 292-603-2                     | 90640-81-6                                                                 | 0.01    |
| 13   | Anthracene oil, anthracene paste, anthracene fraction                                                                                                          | 295-275-9                     | 91995-15-2                                                                 | 0.01    |
| 14   | Anthracene oil, anthracene paste; distn. Lights                                                                                                                | 295-278-5                     | 91995-17-4                                                                 | 0.01    |
| 15   | Anthracene oil, anthracene-low                                                                                                                                 | 292-604-8                     | 90640-82-7                                                                 | 0.01    |
| 16   | Benzyl butyl phthalate(BBP)                                                                                                                                    | 201-622-7                     | 85-68-7                                                                    | 0.005   |
| 17   | Bis(2-ethylhexyl)phthalate(DEHP)                                                                                                                               | 204-211-0                     | 117-81-7                                                                   | 0.005   |
| 18   | Bis(tributyltin)oxide(TBTO)**                                                                                                                                  | 200-268-0                     | 56-35-9                                                                    | 0.005   |
| 19   | Boric acid*                                                                                                                                                    | 233-139-2 / 234-343-4         | 10043-35-3 / 11113-50-1                                                    | 0.01    |
| 20   | Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid                                                                                     | 231-801-5<br>236-881-5        | 7738-94-5<br>13530-68-2                                                    | 0.01    |
| 21   | Chromium trioxide*                                                                                                                                             | 215-607-8                     | 1333-82-0                                                                  | 0.01    |
| 22   | Cobalt dichloride*                                                                                                                                             | 231-589-4                     | 7646-79-9                                                                  | 0.01    |
| 23   | Cobalt(II) carbonate*                                                                                                                                          | 208-169-4                     | 513-79-1                                                                   | 0.01    |
| 24   | Cobalt(II) diacetate*                                                                                                                                          | 200-755-8                     | 71-48-7                                                                    | 0.01    |
| 25   | Cobalt(II) dinitrate*                                                                                                                                          | 233-402-1                     | 10141-05-6                                                                 | 0.01    |
| 26   | Cobalt(II) sulphate*                                                                                                                                           | 233-334-2                     | 10124-43-3                                                                 | 0.01    |
| 27   | Diarsenic pentaoxide*                                                                                                                                          | 215-116-9                     | 1303-28-2                                                                  | 0.01    |
| 28   | Diarsenic trioxide*                                                                                                                                            | 215-481-4                     | 1327-53-3                                                                  | 0.01    |
| 29   | Dibutyl Phthalate(DBP)                                                                                                                                         | 201-557-4                     | 84-74-2                                                                    | 0.005   |
| 30   | Diisobutyl Phthalate(DIBP)                                                                                                                                     | 201-553-2                     | 84-69-5                                                                    | 0.01    |
| 31   | Disodium tetraborate, anhydrous*                                                                                                                               | 215-540-4                     | 1303-96-4/<br>1330-43-4/<br>12179-04-3                                     | 0.01    |
| 32   | Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane | 247-148-4<br>and<br>221-695-9 | 25637-99-4<br>3194-55-6<br>(134237-50-6)<br>(134237-51-7)<br>(134237-52-8) | 0.005   |
| 33   | Lead chromate*                                                                                                                                                 | 231-846-0                     | 7758-97-6                                                                  | 0.01    |
| 34   | Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*                                                                                                    | 235-759-9                     | 12656-85-8                                                                 | 0.01    |
| 35   | Lead hydrogen arsenate*                                                                                                                                        | 232-064-2                     | 7784-40-9                                                                  | 0.01    |
| 36   | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*                                                                                                            | 215-693-7                     | 1344-37-2                                                                  | 0.01    |
| 37   | Coal tar pitch, high temperature                                                                                                                               | 266-028-2                     | 65996-93-2                                                                 | 0.01    |
| 38   | Potassium chromate*                                                                                                                                            | 232-140-5                     | 7789-00-6                                                                  | 0.01    |

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| Seq. | Test Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EC. No.   | CAS No.                  | MDL (%) |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|---------|
| 39   | Potassium dichromate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 231-906-6 | 7778-50-9                | 0.01    |
| 40   | Sodium chromate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 231-889-5 | 7775-11-3                | 0.01    |
| 41   | Sodium dichromate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 234-190-3 | 7789-12-0/<br>10588-01-9 | 0.01    |
| 42   | Tetraboron disodium heptaoxide, hydrate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 235-541-3 | 12267-73-1               | 0.01    |
| 43   | Trichloroethylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 201-167-4 | 79-01-6                  | 0.01    |
| 44   | Triethyl arsenate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 427-700-2 | 15606-95-8               | 0.01    |
| 45   | Tris(2-chloroethyl)phosphate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 204-118-5 | 115-96-8                 | 0.01    |
| 46   | Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions:<br>a) Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> and ZrO <sub>2</sub> are present within the following concentration ranges:<br>Al <sub>2</sub> O <sub>3</sub> : 35 – 36 % w/w, and<br>SiO <sub>2</sub> : 47.5 – 50 % w/w, and<br>ZrO <sub>2</sub> : 15 - 17 % w/w,<br>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)*** | ---       | ---                      | 0.01    |
| 47   | 2-ethoxyethyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 203-839-2 | 111-15-9                 | 0.01    |
| 48   | Strontium chromate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 232-142-6 | 7789-06-2                | 0.01    |
| 49   | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 271-084-6 | 68515-42-4               | 0.01    |
| 50   | Hydrazine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 206-114-9 | 7803-57-8<br>302-01-2    | 0.01    |
| 51   | 1-methyl-2-pyrrolidone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 212-828-1 | 872-50-4                 | 0.01    |
| 52   | 1,2,3-trichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 202-486-1 | 96-18-4                  | 0.01    |
| 53   | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 276-158-1 | 71888-89-6               | 0.01    |
| 54   | Lead dipicrate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 229-335-2 | 6477-64-1                | 0.01    |
| 55   | Lead styphnate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 239-290-0 | 15245-44-0               | 0.01    |
| 56   | Lead azide Lead diazide*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 236-542-1 | 13424-46-9               | 0.01    |
| 57   | Phenolphthalein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 201-004-7 | 77-09-8                  | 0.01    |
| 58   | 2,2'-dichloro-4,4'-methylenedianiline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 202-918-9 | 101-14-4                 | 0.01    |
| 59   | N,N-dimethylacetamide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 204-826-4 | 127-19-5                 | 0.01    |
| 60   | Trilead diarsenate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 222-979-5 | 3687-31-8                | 0.01    |
| 61   | Calcium arsenate*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 231-904-5 | 7778-44-1                | 0.01    |
| 62   | Arsenic acid*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 231-901-9 | 7778-39-4                | 0.01    |
| 63   | Bis(2-methoxyethyl) ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 203-924-4 | 111-96-6                 | 0.01    |

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| Seq. | Test Item(s)                                                                                                                                                                                                                             | EC. No.   | CAS No.    | MDL (%) |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|
| 64   | 1,2-Dichloroethane                                                                                                                                                                                                                       | 203-458-1 | 107-06-2   | 0.01    |
| 65   | 4-(1,1,3,3-tetramethylbutyl)phenol                                                                                                                                                                                                       | 205-426-2 | 140-66-9   | 0.01    |
| 66   | 2-Methoxyaniline; o-Anisidine                                                                                                                                                                                                            | 201-963-1 | 90-04-0    | 0.01    |
| 67   | Bis(2-methoxyethyl) phthalate                                                                                                                                                                                                            | 204-212-6 | 117-82-8   | 0.01    |
| 68   | Formaldehyde, oligomeric reaction products with aniline                                                                                                                                                                                  | 500-036-1 | 25214-70-4 | 0.01    |
| 69   | Pentazinc chromate octahydroxide*                                                                                                                                                                                                        | 256-418-0 | 49663-84-5 | 0.01    |
| 70   | Potassium hydroxyoctaoxodizincatedi-chromate*                                                                                                                                                                                            | 234-329-8 | 11103-86-9 | 0.01    |
| 71   | Dichromium tris(chromate)*                                                                                                                                                                                                               | 246-356-2 | 24613-89-6 | 0.01    |
| 72   | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                                                                                                                        | 203-977-3 | 112-49-2   | 0.01    |
| 73   | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                              | 203-794-9 | 110-71-4   | 0.01    |
| 74   | Diboron trioxide*                                                                                                                                                                                                                        | 215-125-8 | 1303-86-2  | 0.01    |
| 75   | Formamide                                                                                                                                                                                                                                | 200-842-0 | 75-12-7    | 0.01    |
| 76   | Lead(II) bis(methanesulfonate) *                                                                                                                                                                                                         | 401-750-5 | 17570-76-2 | 0.01    |
| 77   | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                                                                                                                                                                 | 219-514-3 | 2451-62-9  | 0.01    |
| 78   | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)                                                                                                                                                  | 423-400-0 | 59653-74-6 | 0.01    |
| 79   | 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)                                                                                                                                                                                  | 202-027-5 | 90-94-8    | 0.01    |
| 80   | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                                                           | 202-959-2 | 101-61-1   | 0.01    |
| 81   | [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)] ****                  | 208-953-6 | 548-62-9   | 0.01    |
| 82   | [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)] **** | 219-943-6 | 2580-56-5  | 0.01    |
| 83   | 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)] ****                                              | 229-851-8 | 6786-83-0  | 0.01    |
| 84   | 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)] ****                                                                                   | 209-218-2 | 561-41-1   | 0.01    |
| 85   | Bis(pentabromophenyl) ether (DecaBDE)                                                                                                                                                                                                    | 214-604-9 | 1163-19-5  | 0.01    |
| 86   | Pentacosfluorotridecanoic acid                                                                                                                                                                                                           | 276-745-2 | 72629-94-8 | 0.01    |
| 87   | Tricosfluorododecanoic acids                                                                                                                                                                                                             | 206-203-2 | 307-55-1   | 0.01    |
| 88   | Henicosfluoroundecanoic acid                                                                                                                                                                                                             | 218-165-4 | 2058-94-8  | 0.01    |
| 89   | Heptacosfluorotetradecanoic acid                                                                                                                                                                                                         | 206-803-4 | 376-06-7   | 0.01    |
| 90   | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues                                                                                                           | ---       | ---        | 0.01    |

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|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|---------|
| 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 | ---                                                 | ---                                                     | 0.01    |
| 92   | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                 | 204-650-8                                           | 123-77-3                                                | 0.01    |
| 93   | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)                                                                                                                                                                                                       | 201-604-9                                           | 85-42-7                                                 | 0.01    |
| 94   | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride                                                                                                                               | 247-094-1,<br>243-072-0,<br>256-356-4,<br>260-566-1 | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | 0.01    |
| 95   | Methoxy acetic acid                                                                                                                                                                                                                                                               | 210-894-6                                           | 625-45-6                                                | 0.01    |
| 96   | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                                                                                                                                                  | 284-032-2                                           | 84777-06-0                                              | 0.01    |
| 97   | Diisopentylphthalate (DIPP)                                                                                                                                                                                                                                                       | 210-088-4                                           | 605-50-5                                                | 0.01    |
| 98   | N-pentyl-isopentylphthalate                                                                                                                                                                                                                                                       | ---                                                 | ---                                                     | 0.01    |
| 99   | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                | 211-076-1                                           | 629-14-1                                                | 0.01    |
| 100  | N,N-dimethylformamide; dimethyl formamide                                                                                                                                                                                                                                         | 200-679-5                                           | 68-12-2                                                 | 0.01    |
| 101  | Dibutyltin dichloride (DBT)                                                                                                                                                                                                                                                       | 211-670-0                                           | 683-18-1                                                | 0.01    |
| 102  | Acetic acid, lead salt, basic*                                                                                                                                                                                                                                                    | 257-175-3                                           | 51404-69-4                                              | 0.01    |
| 103  | Basic lead carbonate (trilead bis(carbonate)dihydroxide)*                                                                                                                                                                                                                         | 215-290-6                                           | 1319-46-6                                               | 0.01    |
| 104  | Lead oxide sulfate (basic lead sulfate)*                                                                                                                                                                                                                                          | 234-853-7                                           | 12036-76-9                                              | 0.01    |
| 105  | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*                                                                                                                                                                                                                             | 273-688-5                                           | 69011-06-9                                              | 0.01    |
| 106  | Dioxobis(stearato)trilead*                                                                                                                                                                                                                                                        | 235-702-8                                           | 12578-12-0                                              | 0.01    |
| 107  | Fatty acids, C16-18, lead salts*                                                                                                                                                                                                                                                  | 292-966-7                                           | 91031-62-8                                              | 0.01    |
| 108  | Lead bis(tetrafluoroborate)*                                                                                                                                                                                                                                                      | 237-486-0                                           | 13814-96-5                                              | 0.01    |
| 109  | Lead cyanamate*                                                                                                                                                                                                                                                                   | 244-073-9                                           | 20837-86-9                                              | 0.01    |
| 110  | Lead dinitrate*                                                                                                                                                                                                                                                                   | 233-245-9                                           | 10099-74-8                                              | 0.01    |
| 111  | Lead oxide (lead monoxide)*                                                                                                                                                                                                                                                       | 215-267-0                                           | 1317-36-8                                               | 0.01    |
| 112  | Lead tetroxide (orange lead)*                                                                                                                                                                                                                                                     | 215-235-6                                           | 1314-41-6                                               | 0.01    |
| 113  | Lead titanium trioxide*                                                                                                                                                                                                                                                           | 235-038-9                                           | 12060-00-3                                              | 0.01    |
| 114  | Lead Titanium Zirconium Oxide*                                                                                                                                                                                                                                                    | 235-727-4                                           | 12626-81-2                                              | 0.01    |
| 115  | Pentalead tetraoxide sulphate*                                                                                                                                                                                                                                                    | 235-067-7                                           | 12065-90-6                                              | 0.01    |
| 116  | Pyrochlore, antimony lead yellow*                                                                                                                                                                                                                                                 | 232-382-1                                           | 8012-00-8                                               | 0.01    |
| 117  | Silicic acid, barium salt, lead-doped*                                                                                                                                                                                                                                            | 272-271-5                                           | 68784-75-8                                              | 0.01    |
| 118  | Silicic acid, lead salt*                                                                                                                                                                                                                                                          | 234-363-3                                           | 11120-22-2                                              | 0.01    |
| 119  | Sulfurous acid, lead salt, dibasic*                                                                                                                                                                                                                                               | 263-467-1                                           | 62229-08-7                                              | 0.01    |
| 120  | Tetraethyllead*                                                                                                                                                                                                                                                                   | 201-075-4                                           | 78-00-2                                                 | 0.01    |



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|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------|
| 121  | Tetralead trioxide sulphate*                                                                                                                          | 235-380-9 | 12202-17-4  | 0.01    |
| 122  | Trilead dioxide phosphonate*                                                                                                                          | 235-252-2 | 12141-20-7  | 0.01    |
| 123  | Furan                                                                                                                                                 | 203-727-3 | 110-00-9    | 0.01    |
| 124  | Propylene oxide; 1,2-epoxypropane; methyloxirane                                                                                                      | 200-879-2 | 75-56-9     | 0.01    |
| 125  | Diethyl sulphate                                                                                                                                      | 200-589-6 | 64-67-5     | 0.01    |
| 126  | Dimethyl sulphate                                                                                                                                     | 201-058-1 | 77-78-1     | 0.01    |
| 127  | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                    | 421-150-7 | 143860-04-2 | 0.01    |
| 128  | Dinoseb                                                                                                                                               | 201-861-7 | 88-85-7     | 0.01    |
| 129  | 4,4'-methylenedi-o-toluidine                                                                                                                          | 212-658-8 | 838-88-0    | 0.01    |
| 130  | 4,4'-oxydianiline and its salts                                                                                                                       | 202-977-0 | 101-80-4    | 0.01    |
| 131  | 4-Aminoazobenzene                                                                                                                                     | 200-453-6 | 60-09-3     | 0.01    |
| 132  | 4-methyl-m-phenylenediamine (toluene -2,4 -diamine)                                                                                                   | 202-453-1 | 95-80-7     | 0.01    |
| 133  | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                   | 204-419-1 | 120-71-8    | 0.01    |
| 134  | Biphenyl-4-ylamine                                                                                                                                    | 202-177-1 | 92-67-1     | 0.01    |
| 135  | O-aminoazotoluene                                                                                                                                     | 202-591-2 | 97-56-3     | 0.01    |
| 136  | O-Toluidine                                                                                                                                           | 202-429-0 | 95-53-4     | 0.01    |
| 137  | N-methylacetamide                                                                                                                                     | 201-182-6 | 79-16-3     | 0.01    |
| 138  | 1-bromopropane(n-propyl bromide)                                                                                                                      | 203-445-0 | 106-94-5    | 0.01    |
| 139  | Cadmium*                                                                                                                                              | 231-152-8 | 7440-43-9   | 0.01    |
| 140  | Cadmium oxide*                                                                                                                                        | 215-146-2 | 1306-19-0   | 0.01    |
| 141  | Ammonium pentadecafluorooctanoate(APFO)                                                                                                               | 223-320-4 | 3825-26-1   | 0.01    |
| 142  | Pentadecafluorooctanoic acid(PFOA)                                                                                                                    | 206-397-9 | 335-67-1    | 0.01    |
| 143  | Dipentyl phthalate(DPP)                                                                                                                               | 205-017-9 | 131-18-0    | 0.01    |
| 144  | 4-Nonylphenol, branched and linear,ethoxylated                                                                                                        | ---       | ---         | 0.01    |
| 145  | Cadmium sulphide*                                                                                                                                     | 215-147-8 | 1306-23-6   | 0.01    |
| 146  | 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    | 0.03    |
| 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) | 217-710-3 | 1937-37-7   | 0.03    |
| 148  | Dihexyl phthalate                                                                                                                                     | 201-559-5 | 84-75-3     | 0.01    |
| 149  | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                        | 202-506-9 | 96-45-7     | 0.03    |
| 150  | Lead di(acetate) *                                                                                                                                    | 206-104-4 | 301-04-2    | 0.01    |
| 151  | Trixylyl phosphate                                                                                                                                    | 246-677-8 | 25155-23-1  | 0.01    |
| 152  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                      | 271-093-5 | 68515-50-4  | 0.01    |

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| Seq. | Test Item(s)                                                                                                                                                                                                                        | EC. No.                 | CAS No.                                  | MDL (%) |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|---------|
| 153  | Sodium perborate; perboric acid, sodium salt *                                                                                                                                                                                      | 239-172-9;<br>234-390-0 | ---                                      | 0.01    |
| 154  | Sodium peroxometaborate*                                                                                                                                                                                                            | 231-556-4               | 7632-04-4                                | 0.01    |
| 155  | Cadmium chloride*                                                                                                                                                                                                                   | 233-296-7               | 10108-64-2                               | 0.01    |
| 156  | Cadmium Fluoride                                                                                                                                                                                                                    | 232-222-0               | 7790-79-6                                | 0.01    |
| 157  | Cadmium Sulphate                                                                                                                                                                                                                    | 233-331-6               | 10124-36-4<br>31119-53-6                 | 0.01    |
| 158  | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                | 223-346-6               | 3846-71-7                                | 0.01    |
| 159  | 2-(2H-benzotriazol-2-yl)-4,6-diterpentlphenol (UV-328)                                                                                                                                                                              | 247-384-8               | 25963-55-1                               | 0.01    |
| 160  | 2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)                                                                                                                                               | 239-622-4               | 15571-58-1                               | 0.01    |
| 161  | Reaction mass of 2-ethylhexyl-10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoatetradecanoate (reaction mass of DOTE and MOTE)                                                                                      | -                       | -                                        | 0.01    |
| 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)                                                     | 271-049-0<br>272-013-1  | 68515-51-5<br>68648-93-1                 | 0.01    |
| 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] | -                       | -                                        | 0.01    |
| 164  | 1,3-propanesultone                                                                                                                                                                                                                  | 214-317-9               | 1120-71-4                                | 0.01    |
| 165  | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                      | 223-383-8               | 3864-99-1                                | 0.01    |
| 166  | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                | 253-037-1               | 36437-37-3                               | 0.01    |
| 167  | Nitrobenzene                                                                                                                                                                                                                        | 202-716-0               | 98-95-3                                  | 0.01    |
| 168  | Perfluorononan-1-oic-acid and its sodium and ammonium salts                                                                                                                                                                         | 206-801-3               | 375-95-1<br>21049-39-8<br>4149-60-4      | 0.01    |
| 169  | Benzo(def)chrysene                                                                                                                                                                                                                  | 200-028-5               | 50-32-8                                  | 0.01    |
| 170  | 4,4-isopropylidenediphenol (Bisphenol A)                                                                                                                                                                                            | 201-245-8               | 80-05-7                                  | 0.01    |
| 171  | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                | 206-400-3<br>221-470-5  | 3108-42-7<br>335-76-2<br>3830-45-3       | 0.01    |
| 172  | 4-heptylphenol, branched and linear (4-HPbl)                                                                                                                                                                                        | -                       | -                                        | 0.01    |
| 173  | 4-tert-penylphenol (PTAP)                                                                                                                                                                                                           | 201-280-9               | 80-46-6                                  | 0.01    |
| 174  | Perfluorohexane-1-sulphonic acid and its salts                                                                                                                                                                                      | 206-587-1               | 355-46-4                                 | 0.01    |
| 175  | Dechlorane Plus(TM) and reaction products of 1,3,4-thiadiazolidine-2,5-dithione                                                                                                                                                     | /                       | 13560-89-9<br>135821-74-8<br>135821-03-3 | 0.01    |
| 176  | benz[a]anthracene                                                                                                                                                                                                                   | 200-280-6               | 56-55-3                                  | 0.01    |
| 177  | cadmium nitrate                                                                                                                                                                                                                     | 233-710-6               | 10325-94-7                               | 0.01    |
| 178  | cadmium carbonate                                                                                                                                                                                                                   | 208-168-9               | 513-78-0                                 | 0.01    |
| 179  | cadmium hydroxide                                                                                                                                                                                                                   | 244-168-5               | 21041-95-2                               | 0.01    |
| 180  | chrysene                                                                                                                                                                                                                            | 205-923-4               | 218-01-9                                 | 0.01    |



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|------|------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|---------|
| 181  | formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]     | /         | /                      | 0.01    |
| 182  | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)                                                       | 209-8-0   | 552-30-7               | 0.01    |
| 183  | Benzo[ghi]perylene                                                                                                           | 205-883-8 | 191-24-2               | 0.005   |
| 184  | Decamethylcyclopentasiloxane (D5)                                                                                            | 208-764-9 | 541-02-6               | 0.005   |
| 185  | Dicyclohexyl phthalate (DCHP)                                                                                                | 201-545-9 | 84-61-7                | 0.01    |
| 186  | Disodium octaborate                                                                                                          | 234-541-0 | 12008-41-2             | 0.005   |
| 187  | Dodecamethylcyclohexasiloxane (D6)                                                                                           | 208-762-8 | 540-97-6               | 0.005   |
| 188  | Ethylenediamine                                                                                                              | 203-468-6 | 107-15-3               | 0.01    |
| 189  | Lead                                                                                                                         | 231-100-4 | 7439-92-1              | 0.005   |
| 190  | Octamethylcyclotetrasiloxane (D4)                                                                                            | 209-136-7 | 556-67-2               | 0.005   |
| 191  | Terphenyl hydrogenated                                                                                                       | 262-967-7 | 61788-32-7             | 0.005   |
| 192  | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one                                                                | 239-139-9 | 15087-24-8             | 0.005   |
| 193  | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                                                    | 401-720-1 | 6807-17-6              | 0.005   |
| 194  | Benzo[k]fluoranthene                                                                                                         | 205-916-6 | 207-08-9               | 0.005   |
| 195  | Fluoranthene                                                                                                                 | 205-912-4 | 206-44-0<br>93951-69-0 | 0.005   |
| 196  | Phenanthrene                                                                                                                 | 201-581-5 | 85-01-8                | 0.005   |
| 197  | Pyrene                                                                                                                       | 204-927-3 | 129-00-0<br>1718-52-1  | 0.005   |
| 198  | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides                                     | ---       | ---                    | 0.01    |
| 199  | 2-methoxyethyl acetate                                                                                                       | 203-772-9 | 110-49-6               | 0.01    |
| 200  | 4-tert-butylphenol                                                                                                           | 202-679-0 | 98-54-4                | 0.01    |
| 201  | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) | ---       | ---                    | 0.01    |
| 202  | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                          | 404-360-3 | 119313-12-1            | 0.01    |
| 203  | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                                     | 400-600-6 | 71868-10-5             | 0.01    |
| 204  | Diisohexyl phthalate                                                                                                         | 276-090-2 | 71850-09-4             | 0.01    |
| 205  | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                           | ---       | ---                    | 0.01    |
| 206  | 1-vinylimidazole                                                                                                             | 214-012-0 | 1072-63-5              | 0.01    |
| 207  | 2-methylimidazole                                                                                                            | 211-765-7 | 693-98-1               | 0.01    |
| 208  | Butyl 4-hydroxybenzoate                                                                                                      | 202-318-7 | 94-26-8                | 0.01    |
| 209  | Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                      | 245-152-0 | 22673-19-4             | 0.01    |

\*\*\*\*\* To be continued \*\*\*\*\*

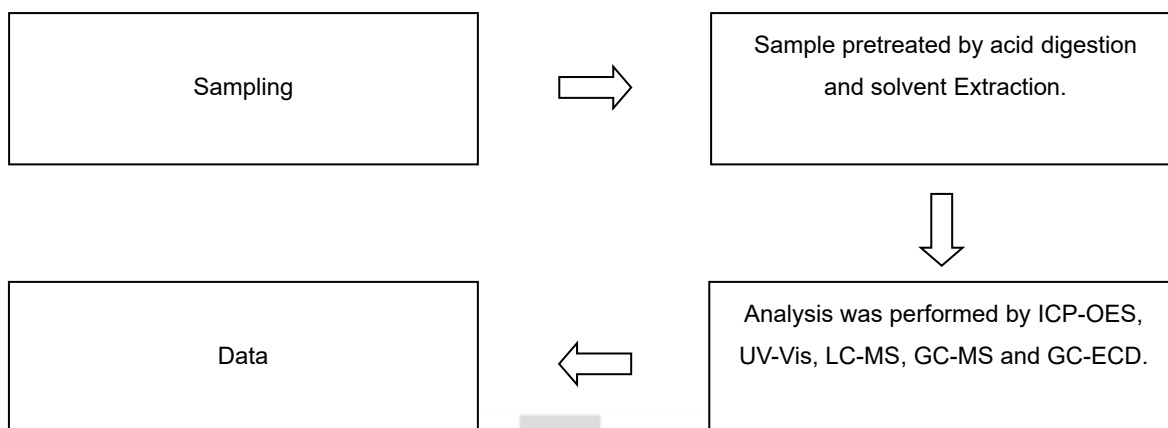
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- Remark 1** 1) In accordance with Regulation(EC) No. 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with 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).  
2) From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, 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.
- Remark 2** 1)\* Calculated concentration of cobalt dichloride, cobalt(II) sulphate, cobalt(II) dinitrate, cobalt(II) carbonate and cobalt(II) diacetate is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, chromium trioxide, sodium dichromate, dehydrate, lead hydrogen arsenate, triethyl arsenate, lead chromate, sodium chromate, strontium chromate, potassium chromate, ammonium dichromate, potassium dichromate, lead chromate molybdate sulfate red, lead sulfochromate yellow and acids generated from chromium trioxide and their oligomers, Lead dipicrate, Lead styphnate, Lead azide Lead diazide, Trilead diarsenate, Calcium arsenate, Arsenic acid, Potassium hydroxyoctaoxodizincatedi-chromate, Dichromium tris(chromate), Pentazinc chromate octahydroxide, Lead(II) bis(methanesulfonate), Diboron trioxide, Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead (dibasic lead phthalate), Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamide, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium, Cadmium oxide, Cadmium sulphide and Lead di(acetate), Cadmium chloride are based on the identified heavy metal result, boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate are based on the identified result of boron and sodium result. The identities of above metal substances present in the article have to be further confirmed;  
2)\*\* Concentration of bis(tributyltin)oxide, TBTO is reported as tributyltin, TBT. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is needed to have the exact amount of TBTO;  
3)\*\*\* Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres ;Zirconia Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and confirmation by microscope;  
4) \*\*\*\*The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration  $\geq 0.1\%$  (weight / weight);  
5) N.D. = Not detected, less than MDL.

\*\*\*\*\* To be continued \*\*\*\*\*

## FLOW CHART



\*\*\*\*\* To be continued \*\*\*\*\*

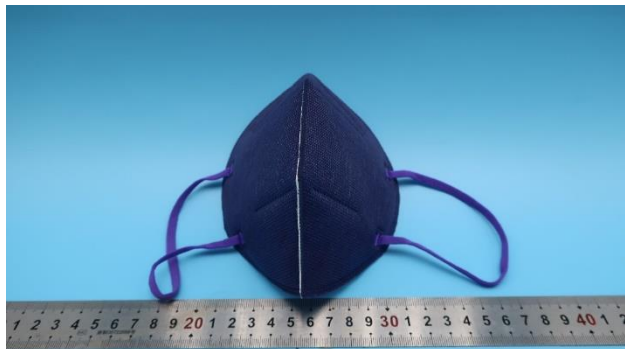
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## SAMPLE IMAGE



*Tested sample*

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

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